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August 10, 2017

Ms. Donna Drogos
Alameda County Environmental Health
1131 Harbor Parkway, Suite 250
Oakland, CA 94502-6577

Subject: First Quarter 2017 Groundwater Monitoring Report
Shore Acres Gas
403 East 12th Street, Oakland, Alameda County, California
RO #0002931
ECG # GHA.19009

Dear Ms. Drogos:

Enclosed please find a copy of the July 25, 2017, *Third Quarter 2017 Groundwater Monitoring Report* for the above referenced site prepared by our consultant Environmental Compliance Group, LLC.

I declare, under penalty and perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Respectfully,



Rashid Ghafoor

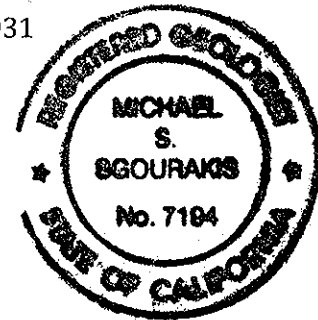
FIRST QUARTER 2017 GROUNDWATER MONITORING REPORT

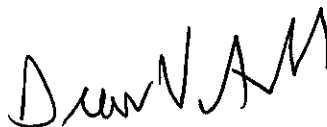
SHORE ACRES GAS
403 EAST 12TH STREET
OAKLAND, CALIFORNIA

Prepared for: Rashid Ghafoor

ECG Project Number: GHA.19009
Alameda County Fuel Leak Case No. RO0002931

July 25, 2017





Drew Van Allen
Senior Project Manager



Michael S. Sgourakis
Principal Geologist
CA P.G. No. 7194

TABLE OF CONTENTS

| | |
|--|---|
| Introduction..... | 3 |
| Limitations | 3 |
| Site Description and Hydrogeologic Conditions..... | 3 |
| Site Description..... | 3 |
| Hydrogeologic Conditions..... | 3 |
| Project Background | 4 |
| Investigations | 4 |
| Risk Assessments | 4 |
| Corrective Actions | 4 |
| First Quarter 2017 Monitoring Event..... | 5 |
| Work Performed and Proposed | 5 |
| Work Performed First Quarter 2017..... | 5 |
| Work Scheduled for Second Quarter 2017 | 5 |
| Discussion of Recent Monitoring Activities..... | 5 |
| Discussion of Recent Remediation Activities | 6 |
| Results and Conclusions | 6 |
| Recomendations..... | 6 |

Figures

- Figure 1: Site Location Map
- Figure 2: Site Map
- Figure 3: Potentiometric Surface Map
- Figure 4: Rose Diagram
- Figure 5: TPHg in Groundwater Isoconcentration Map
- Figure 6: Benzene in Groundwater Isoconcentration Map
- Figure 7: MTBE in Groundwater Isoconcentration Map

Tables

| | |
|-----------|--|
| Table 1: | Well Construction Details |
| Table 2a: | Historical Soil Analytical Data, TPH and BTEX |
| Table 2b: | Historical Soil Analytical Data, Oxygenates and Lead Scavengers |
| Table 3a: | Grab Groundwater Sample Results, TPH and BTEX |
| Table 3b: | Grab Groundwater Sample Results, Oxygenates and Lead Scavengers |
| Table 4a: | Monitoring Well Data, Water Level, TPH, and BTEX |
| Table 4b: | Monitoring Well Data, Oxygenates and Lead Scavengers |
| Table 5a: | Soil Vapor Extraction System Performance Calculations |
| Table 5b: | Soil Vapor Extraction Destruction Efficiency and Emission Calculations |
| Table 5c: | Groundwater Treatment System Performance Data |

Appendices

| | |
|-------------|-------------------------------|
| Appendix A: | Standard Operating Procedures |
| Appendix B: | Laboratory Analytical Reports |
| Appendix C: | Field Notes |

INTRODUCTION

Environmental Compliance Group (ECG) has been authorized by Mr. Rashid Ghafoor to provide this report for the site.

This report describes activities conducted during First Quarter 2017 groundwater monitoring event. Site information is as follows:

| | |
|-----------------------|---|
| Site Location: | 403 East 12 th Street Oakland, California |
| Geotracker Global ID: | T0600174667 |

LIMITATIONS

This report has been prepared for use by Rashid Ghafoor and the relevant regulatory agencies. The conclusions in this report are professional opinions based on the data presented in this report. This report was prepared in general accordance with hydrogeologic and engineering methods and standards. No other warranties are made as to the findings or conclusions presented in this report. The work described in this report was performed under the direct supervision of the professional geologist whose signature and State of California registration are shown above.

SITE DESCRIPTION AND HYDROGEOLOGIC CONDITIONS

SITE DESCRIPTION

The site occupies a parcel on the southeast corner of 4th Avenue and East 12th Street in Oakland, Alameda County, California (Figure 1). The site is situated in a commercial and residential area in central Oakland and is currently vacant. The site was historically used as a gasoline station. The area of interest at the site is the former location of three underground storage tanks (USTs) and fuel dispensers where impacted soil and groundwater was first identified in 2006. A detailed site plan is shown on Figure 2.

HYDROGEOLOGIC CONDITIONS

The site is underlain by Quaternary-age dune sand deposits referred to as the Merritt Sand. The Merritt Sand is typically described as loose, well-sorted fine- to medium-grained sand with a large silt component. The sand is reported to reach a maximum depth of 50-feet bgs in the area.

Based on boring logs from the advancement of 11 soil borings and the installation of six monitoring wells and four extraction wells, the stratigraphy of the site and vicinity consists of silt to approximately 30-feet bgs with discontinuous thin intervals of sandy silt and clayey sand present in the area.

Depth to groundwater is shallow, ranging between 8- to 14-feet bgs. The groundwater flow direction appears to be generally toward the southeast.

PROJECT BACKGROUND

INVESTIGATIONS

In July 2006, Geofon Incorporated (Geofon) advanced soil borings GP-1 and GP-2 and collected and analyzed soil samples. Results are detailed in Geofon's report entitled *Summary of Phase II Assessment Activities*, dated July 25, 2006.

In August 2009, Wright Environmental Services, Inc. (Wright) removed three USTs, associated fuel dispensers, and all associated piping. Results are detailed in Wright's *Closure Report for Three Underground Storage Tanks*, dated September 2009.

In April 2010, Apex Envirotech, Inc. (Apex) advanced nine soil borings to evaluate the lateral extent of impacted soil and groundwater. Results are documented in Apex's *Subsurface Investigation Results Report* dated June 23, 2010.

In June 2011, ECG supervised the installation of six groundwater monitoring wells (MW-1 through MW-6) and two extraction wells (EW-1 and EW-2). Results are documented in ECG's *Off-Site Investigation and Dual Phase Pilot Test Results with Fourth Quarter 2011 Monitoring Report*, dated January 26, 2012.

RISK ASSESSMENTS

In January 2011, ECG conducted a preferential pathway study for the site. Results are detailed in ECG's *Site Assessment and Soil Vapor Extraction Pilot Test Workplan*, dated February 9, 2011.

In January 2011, ECG conducted a sensitive receptor survey for the site. Results are detailed in ECG's *Site Assessment and Soil Vapor Extraction Pilot Test Workplan*, dated February 9, 2011.

A soil vapor survey has not been completed for the site.

CORRECTIVE ACTIONS

In June 2011, ECG supervised the installation of six groundwater monitoring wells (MW-1 through MW-6) and two extraction wells (EW-1 and EW-2). ECG also performed a 5-day dual phase extraction (DPE) test in June 2011. Results are documented in ECG's *Off-Site Investigation and Dual Phase Pilot Test Results with Fourth Quarter 2011 Monitoring Report*, dated January 26, 2012.

In May 2013, ECG supervised the installation of two extraction wells (EW-3 and EW-4). In September 2013, ECG installed the subsurface piping network from the remediation wells to the remediation compound and the subsurface conduit required by PG&E to install the electrical service required to operate the remediation compound.

In April 2014, the dual phase extraction system began operation. The DPE system includes a 25-horsepower liquid-ring blower capable of up to 400 standardized cubic feet per minute (scfm) flowrate, thermal/catalytic oxidizer, a conveyance piping network, and four individual extraction wells. The blower extracts vapors and groundwater from each extraction wells and through the conveyance piping where the impacted vapor is destroyed in the thermal/catalytic oxidizer prior to

discharge to the atmosphere and the groundwater is treated with an air stripper and granular activated carbon prior to discharge to the municipal sewer system.

The remediation system was started on April 30, 2014 and shut down on June 27, 2014 due to carbon change out requirements. The system was restarted on August 15, 2014. The remediation system was shut down on February 18, 2015 due to complaints from neighbors regarding the propane tank onsite providing supplemental fuel to the remediation equipment. ECG supervised the installation of natural gas provided by PG&E to the site and the system was restarted on August 11, 2015. The system was shut down on December 16, 2015 due to contaminant breakthrough of the first carbon vessel and scheduled carbon change out. The system was restarted January 21, 2016 and shut down on April 11, 2016 due to decreasing contaminant extraction rates and pending regulatory review of ECG's *Fourth Quarter 2015 Monitoring and Remediation System Evaluation Report*, dated August 1, 2016.

The DPE system is operated under Bay Area Air Quality Management District (BAAQMD) permit number 25354 and East Bay Municipal Utility District (EBMUD) Discharge Permit No. 68508758. The DPE system has removed approximately 8,434 pounds of TPHg, 39 pounds of benzene, and 2. pounds of MTBE from the subsurface.

FIRST QUARTER 2017 MONITORING EVENT

WORK PERFORMED AND PROPOSED

The following is a summary of work performed during the first quarter 2017 and work proposed for next quarter at the site.

WORK PERFORMED FIRST QUARTER 2017

1. The first quarter 2017 groundwater monitoring event was performed on March 28, 2017.
2. The remediation system was shut down April 11, 2016 due to decreasing contaminant extraction rates and pending regulatory review of remediation system evaluation report.

WORK SCHEDULED FOR SECOND QUARTER 2017

1. Prepare and finalize first quarter 2017 monitoring and rebound report.
2. Await regulatory review of remediation system evaluation report.

DISCUSSION OF RECENT MONITORING ACTIVITIES

ECG performed the first quarter 2017 groundwater monitoring and sampling event at the site on September 23, 2015. Gauging, development, purging, and sampling were conducted in accordance with ECG's SOPs included in Appendix A. The collected groundwater samples were submitted to CAL Labs located in Ceres, California for laboratory analysis under COC protocols (Appendix B).

The following is a summary of the current status of the groundwater monitoring program at the site:

Current Phase of Project:
Groundwater Sampling Schedule:

Post Remediation
Semi-Annual
Wells MW-1 through MW-6, EW-1 through
EW-4

Analysis: TPHg by EPA Method 8015M, BTEX, 5 oxygenates, and 2 lead scavengers by EPA Method 8260B
Is Free Product Present On-Site: No

The following is a summary of recent field and analytical data:

| | |
|--------------------------------|---|
| Average Depth to Groundwater | 9.20-feet below ground surface (bgs) |
| Average Groundwater Elevation | 22.03 -feet above mean sea level |
| Groundwater Gradient Direction | Southeast |
| Groundwater Gradient | 0.010 |
| TPHg Detected Range | 1,200 ug/L (MW-3) to 47,000 ug/L (MW-1) |
| Benzene Detected Range | 64 ug/L (EW-2) to 1,600 ug/L (MW-1) |
| MTBE Detected | 10 ug/L (MW-2) to 340 (MW-1) |

Laboratory analytical reports and COCs are provided in Appendix B. Field notes are located in Appendix C. Summaries of groundwater monitoring and analytical data are presented in Tables 4a.

DISCUSSION OF RECENT REMEDIATION ACTIVITIES

The remediation system was shut down April 11, 2016 due to decreasing contaminant extraction rates and pending regulatory review of remediation system evaluation report. Summaries of remediation system operating parameters and analytical data are presented in Tables 5a, 5b, and 5c.

RESULTS AND CONCLUSIONS

Water levels and the gradient data were consistent with historical data. Tables 2a, 2b, 3a, 3b, 4a, and 4b tabulate the analytical data for soil and monitoring well sampling data. ECG will keep the remediation system shut down pending regulatory review of remediation system evaluation report. The next groundwater monitoring event will be in third quarter 2017.

RECOMENDATIONS

Based on the above findings and the results of ECG's *Fourth Quarter 2015 Monitoring and Remediation System Evaluation Report*, dated August 1, 2016, ECG recommends the following.

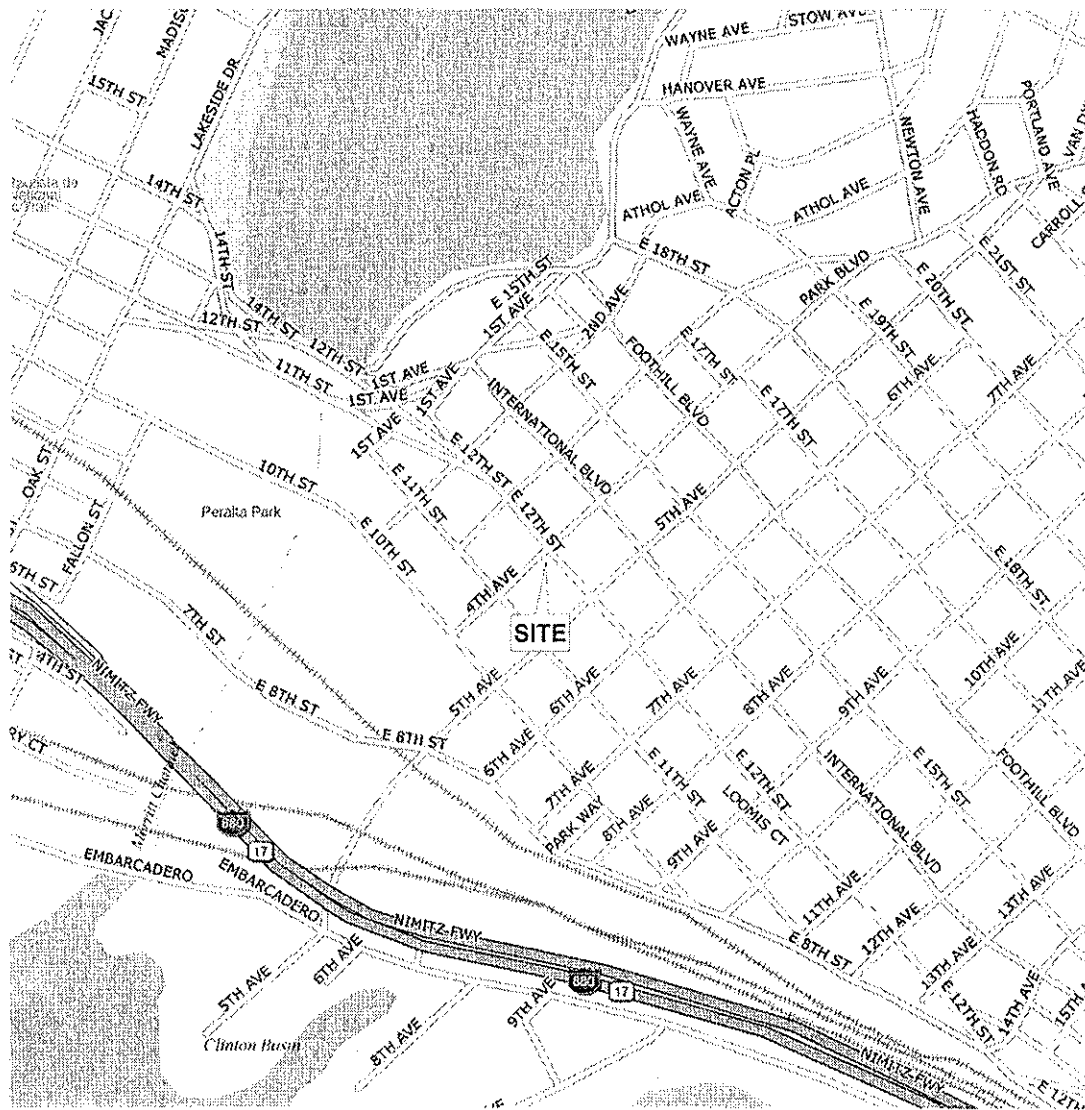
Based on the decreasing trends and rebound observed during times of prolonged operation, ECG recommends continued operation of the DPE system after the rebound samples are collected from the monitoring well network.

Based on the data that approximately 3,000 pounds of TPHg remains in the subsurface, most likely around approximately 15-feet bgs but lower extraction rates show difficulty removing the contamination with the current DPE configuration, ECG proposes conducting a pilot test consisting of installing submersible pumps into two extraction wells, EW-3 and EW-4, and extracting additional water while the current DPE system operates. The purpose of this pilot test is to determine what groundwater flow rates are required to further dewater the shallow zone aquifer and what increase in concentrations, if any, is observed during low water conditions. It has been documented during operation and maintenance of the system that higher PID readings coincide with lower water levels. This pilot test will quantify all the parameters to determine the feasibility of implementing full time groundwater pumping. During the test, groundwater from the


submersible pumps will be stored in a poly tank for disposal through the system at a very low, controlled flow rate so the current air stripper and transfer pumps are not inundated during the test. Upon concurrence from the ACEHS, ECG will prepare a workplan report detailing the activities suggested above.

ECG will make further conclusions and recommendations after the rebound samples and pilot test are concluded.

FIGURES



Approximate Scale In Feet
1 inch = 1,000 Feet

| | | | |
|------------------------------|--|---|--|
| FIGURE 1 | | SITE LOCATION MAP Shore Acre Gas 403 East 12th Street Oakland, California |  Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035 |
| Project Number: GHA.19009 | | | |
| Date: February 9, 2011 | | | |

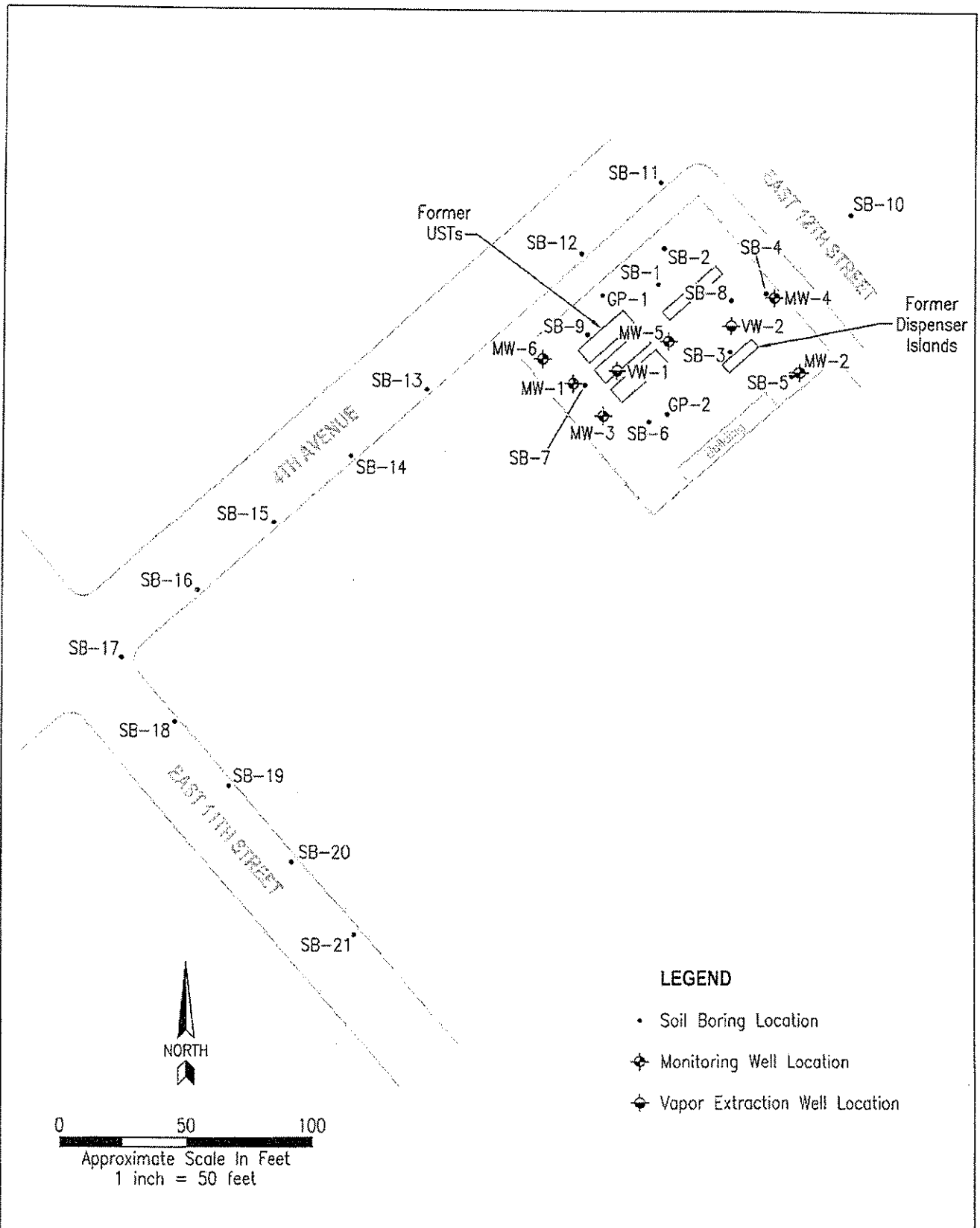



FIGURE 2

Project Number:
GHA.19009

Date:
January 4, 2012

SITE MAP

Shore Acre Gas
403 East 12th Street
Oakland, California



Environmental Compliance Group, LLC

270 Vintage Drive, Turlock, CA 95382
Phone: (209) 664-1035

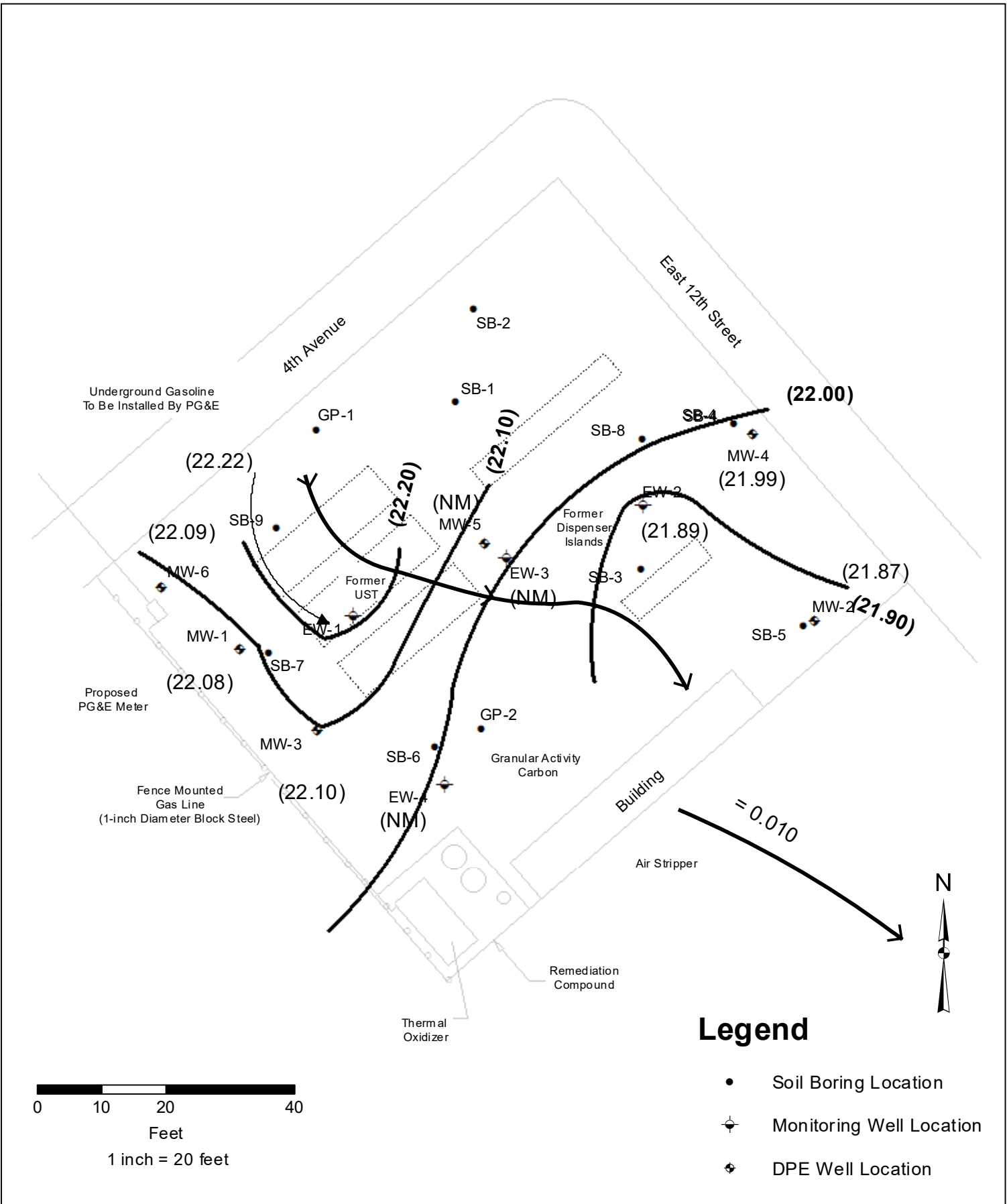


FIGURE 3

Project Number:
GHA.19009

Date:
August 1, 2017

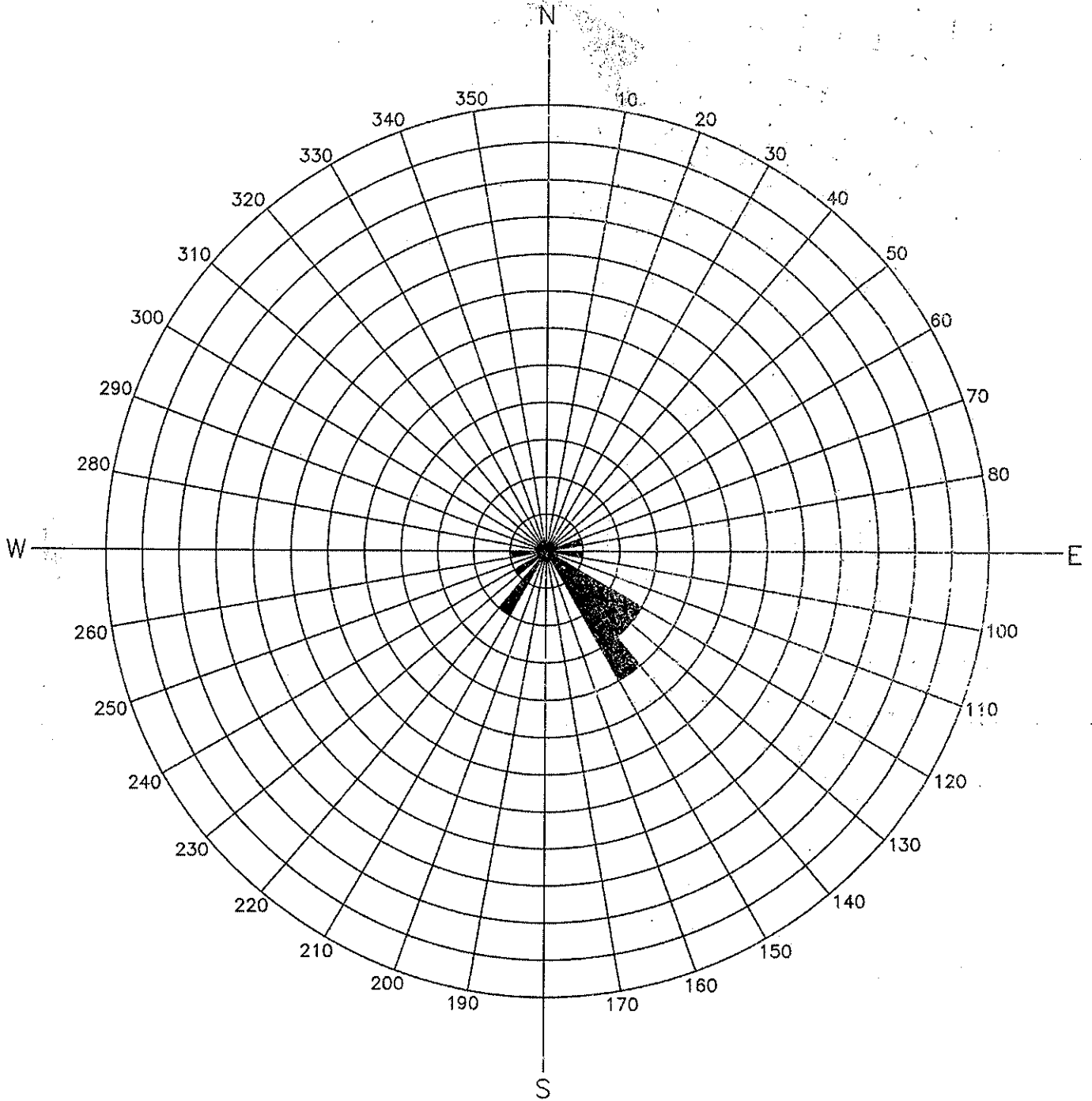
POTENTIOMETRIC SURFACE MAP

Shore Acre Gas
403 East 12th Street
Oakland, California


Date Measured
March 28, 2017

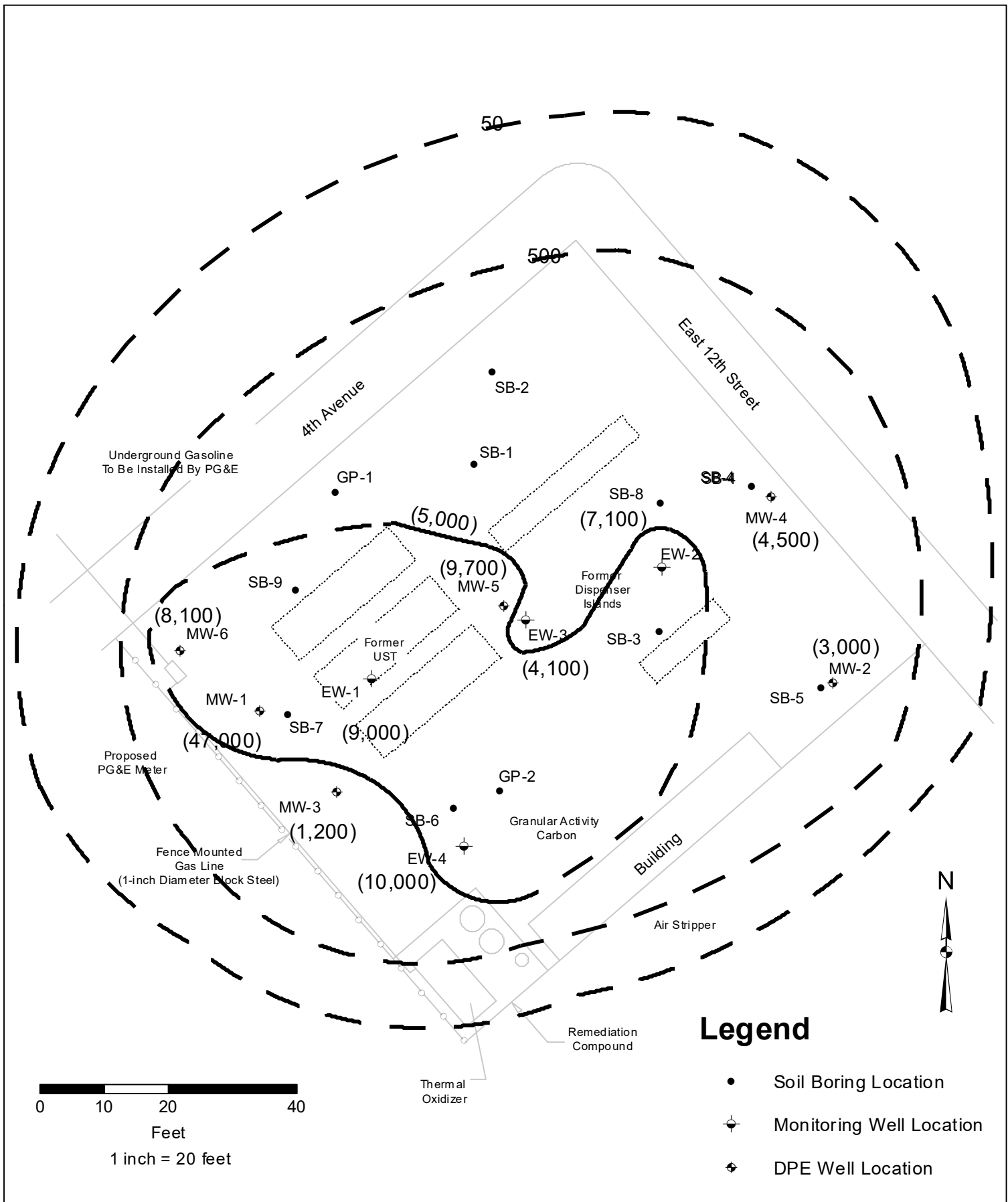
Environmental Compliance Group, LLC

270 VINTAGE DR., TURLOCK, CA 95382
Phone: (290) 664-1035



Thru 3rd Quarter 2016

| | | |
|--------------------------------------|---|--|
| <p>FIGURE 4</p> | <p align="center">ROSE DIAGRAM</p> <p align="center">Shore Acre Gas 403 East 12th Street Oakland, California</p> |  <p>Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035</p> |
| <p>Project Number: GHA.19009</p> | | |
| <p>Date: August 1, 2017</p> | | |



Legend

- Soil Boring Location
- ⊕ Monitoring Well Location
- ⊕ DPE Well Location

FIGURE 5

Project Number:
GHA.19009

Date:
August 1, 2017

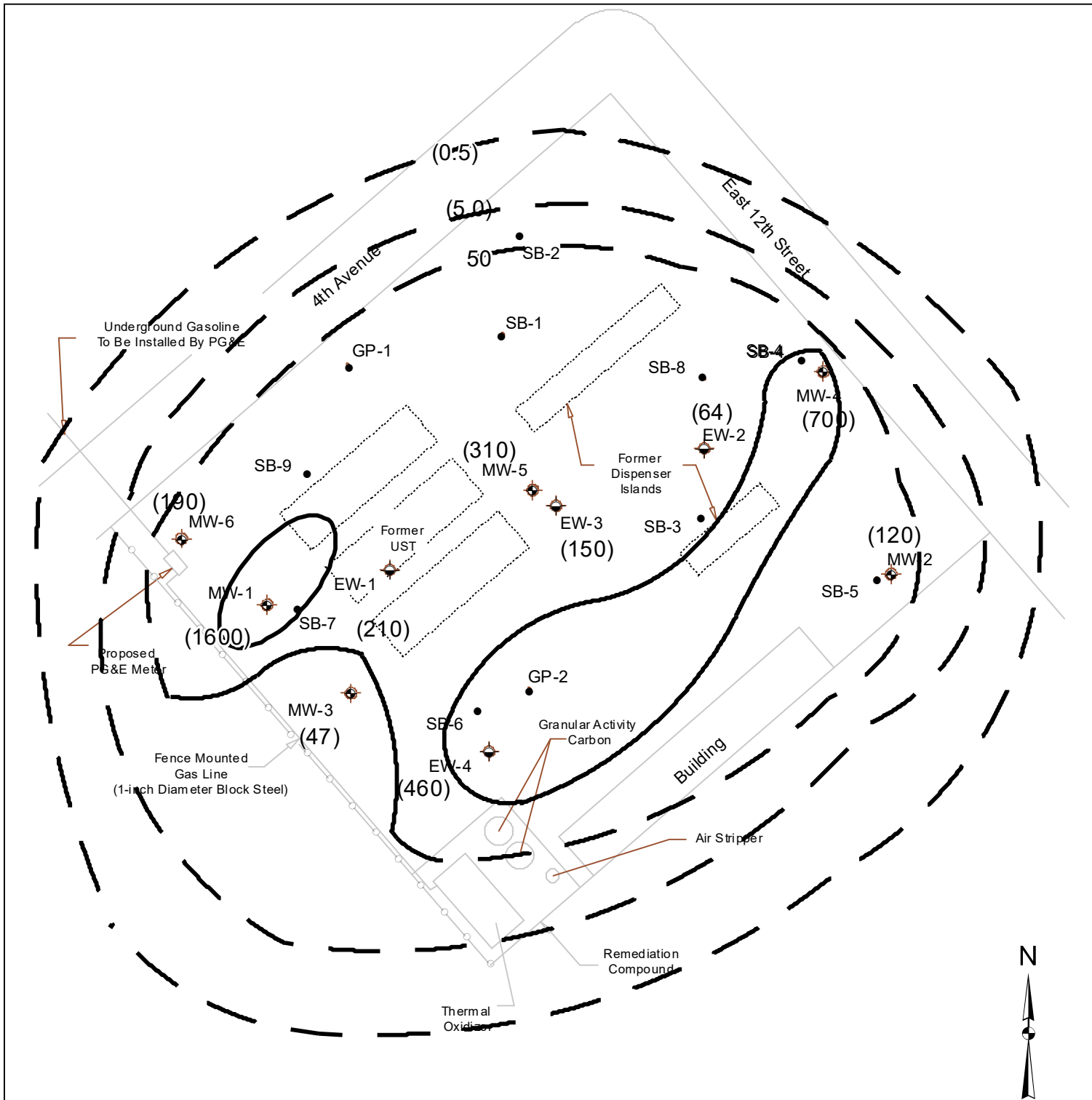
**TPHg ISOCONCENTRATION
IN GROUNDWATER**

Shore Acre Gas
403 East 12th Street
Oakland, California

Date Measured
March 28, 2017



270 VINTAGE DR., TURLOCK, CA 95382
Phone: (290) 664-1035



Legend

- Soil Boring Location
- ⊕ Monitoring Well Location
- ⊕ DPE Well Location

FIGURE 6

Project Number:
GHA.19009

Date:
August 1, 2017

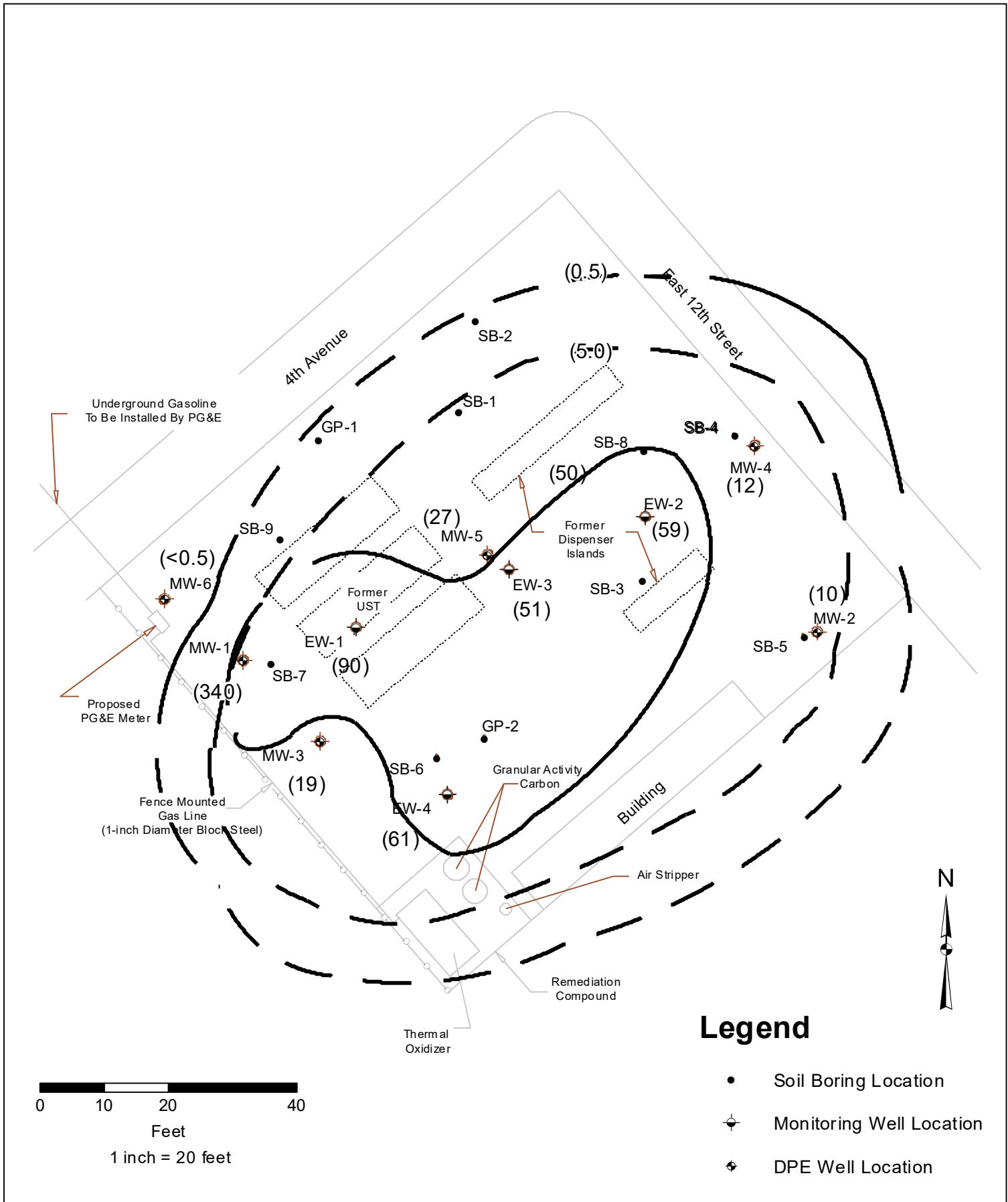
**BENZENE ISOCONCENTRATION
IN GROUNDWATER**

Shore Acre Gas
403 East 12th Street
Oakland, California

Date Measured
March 28, 2017



270 VINTAGE DR., TURLOCK, CA 95382
Phone: (290) 664-1035



Legend

- Soil Boring Location
- ⊕ Monitoring Well Location
- ⊕ DPE Well Location

FIGURE 7

Project Number:
GHA.19009

Date:
February 26th, 2015

MTBE ISOCONCENTRATION IN GROUNDWATER

Shore Acre Gas
403 East 12th Street
Oakland, California

Date Measured
March 28, 2017



270 VINTAGE DR., TURLOCK, CA 95382
Phone: (290) 664-1035

TABLES

Table 1
Well Construction Details
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID | Date Installed | TOC Elevation (ft amsl) | Well Depth (ft bgs) | Casing Diameter (inches) | Casing Material | Screen/Filter | Screen Interval (ft bgs) |
|------------------------------------|----------------|-------------------------|---------------------|--------------------------|-----------------|---------------|--------------------------|
| Monitoring Wells | | | | | | | |
| MW-1 | June 2011 | 30.81 | 20 | 2 | PVC | 0.020/#3 | 10-20 |
| MW-2 | | 31.29 | 20 | 2 | PVC | 0.020/#3 | 10-20 |
| MW-3 | | 31.30 | 18 | 2 | PVC | 0.020/#3 | 8-18 |
| MW-4 | | 31.21 | 19 | 2 | PVC | 0.020/#3 | 9-19 |
| MW-5 | | 31.35 | 20 | 2 | PVC | 0.020/#3 | 10-20 |
| MW-6 | | 30.79 | 20 | 2 | PVC | 0.020/#3 | 10-20 |
| Dual Phase Extraction Wells | | | | | | | |
| EW-1 | June 2011 | 31.46 | 20 | 4 | PVC | 0.020/#3 | 5-20 |
| EW-2 | | 31.43 | 20 | 4 | PVC | 0.020/#3 | 5-20 |
| EW-3 | May 2012 | --- | 20 | 6 | PVC | 0.020/#3 | 5-20 |
| EW-4 | | --- | 20 | 6 | PVC | 0.020/#3 | 5-20 |

Notes:

TOC - denotes top of casing

ft - denotes feet

amsl - denotes above mean sea level

bgs - denotes below ground surface

PVC - denotes polyvinyl chloride

Table 2a
Historical Soil Analytical Data
TPH and BTEX
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Boring ID | Sample Depth (feet) | Collection Date | TPHd (mg/kg) | TPHg (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total xylenes (mg/kg) |
|----------------------------|---------------------|-----------------|--------------|--------------|-----------------|-----------------|----------------------|-----------------------|
| UST Removal Samples | | | | | | | | |
| SS-D1 | 2 | August 2009 | 1,800* | 3,000 | <0.25 | 0.34 | 39 | 180 |
| SS-D2 | 2 | | 900* | 2,400 | <0.25 | <0.25 | 36 | 120 |
| SS-D3 | 2 | | 460* | 1,000 | <0.15 | <0.15 | 12 | 14 |
| SS-D4 | 2 | | 540* | 640 | <0.090 | 1.0 | 6.1 | 51 |
| SS-D5 | 2 | | 320 | 140 | <0.025 | <0.025 | 1.3 | 3.2 |
| SS-D6 | 2.0 | | 320* | 260 | <0.025 | 0.054 | 1.0 | 8.0 |
| SS-J1 | 2.0 | | 39* | 160 | <0.025 | <0.025 | 0.71 | 0.94 |
| SS-Isle | 4.0 | | 560* | 100 | <0.025 | <0.025 | 0.30 | 0.084 |
| SS-7 | 18.0 | | 310* | 1,600 | 6.9 | 76 | 39 | 200 |
| Tank 1-SS-1 | 14.0 | | 830* | 2,500 | 4.2 | 100 | 69 | 360 |
| Tank 1-SS-2 | 14.0 | | 62* | 480 | 1.8 | 5.3 | 14 | 62 |
| Tank 2-SS-1 | 14.0 | | 120* | 290 | 0.37 | 2.4 | 6.3 | 31 |
| Tank 2-SS-2 | 14.0 | | 330* | 80 | 0.074 | 0.051 | 1.2 | 5.8 |
| Tank 3-SS-1 | 14.0 | | 480* | 2,100 | 2.4 | 41 | 62 | 320 |
| Tank 3-SS-2 | 14.0 | | 75* | 130 | 0.23 | 0.26 | 3.1 | 15 |
| Soil Borings | | | | | | | | |
| GP-1-15.5 | 15.5 | July 2006 | 13.0 | 18.0 | 0.63 | 0.052 | 0.69 | 0.13 |
| GP-1-18.0 | 18.0 | | <1.0 | <1.0 | 0.0056 | 0.0082 | <0.005 | 0.019 |
| GP-2-12.0 | 12.0 | | 600 | 3,600 | 17 | 180 | 98 | 440 |
| GP-2-20.0 | 20.0 | | 79 | 1,100 | 3.2 | 41 | 25 | 130 |
| SB-1-9.5 | 9.5 | April 2010 | --- | 1,600 | 5.1 | 43 | 30 | 180 |
| SB-1-24.5 | 24.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-1-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-2-9.5 | 9.5 | | --- | 2.2 | 0.26 | <0.010 | 0.066 | <0.020 |
| SB-2-24.5 | 24.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-2-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-3-14.5 | 14.5 | | --- | 17 | 17 | 100 | 42 | 240 |
| SB-3-24.5 | 24.5 | | --- | <1.0 | <0.005 | 0.005 | <0.005 | 0.013 |
| SB-3-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-4-14.5 | 14.5 | | --- | 1,700 | 13 | 79 | 28 | 170 |
| SB-4-19.5 | 19.5 | | --- | <1.0 | <0.005 | 0.009 | <0.005 | 0.026 |
| SB-4-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-5-14.5 | 14.5 | | --- | 470 | <0.20 | 0.45 | 6.2 | 37 |
| SB-5-24.5 | 24.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-5-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-6-9.5 | 9.5 | | --- | 6,100 | 21 | 170 | 95 | 580 |
| SB-6-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-6-32 | 32.0 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-7-9.5 | 9.5 | | --- | 4,000 | 12 | 46 | 55 | 360 |
| SB-7-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-7-32 | 32.0 | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 | |

Table 2a
Historical Soil Analytical Data
TPH and BTEX
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Boring ID | Sample Depth (feet) | Collection Date | TPHd (mg/kg) | TPHg (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total xylenes (mg/kg) |
|--------------------------|---------------------|-----------------|--------------|--------------|-----------------|-----------------|-----------------------|-----------------------|
| SB-8-9.5 | 9.5 | April 2010 | --- | 2,500 | 16 | 110 | 63 | 370 |
| SB-8-24.5 | 24.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-8-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-9-14.5 | 14.5 | | --- | 390 | 3.0 | 3.0 | 9.1 | 41 |
| SB-9-29.5 | 29.5 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| SB-9-32 | 32.0 | | --- | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| Groundwater Wells | | | | | | | | |
| MW-1-5 | 5 | June 2011 | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| MW-1-15 | 15 | | <5.0 | 18 | 0.55 | <0.050 | 0.87 | 1.2 |
| MW-1-20 | 20 | | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| MW-2-5 | 5 | | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| MW-2-10 | 10 | | <5.0 | 69 | <0.005 | <0.005 | <0.005 | <0.010 |
| MW-2-15 | 15 | | <5.0 | 50 | <0.050 | 0.48 | 3.1 | 19 |
| MW-2-20 | 20 | | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| MW-3-5 | 5 | | <5.0 | <1.0 | <0.010 | <0.010 | <0.010 | <0.020 |
| MW-3-10 | 10 | | <15 | 840 | 3.4 | 33 | 20 | 140 |
| MW-3-15 | 15 | | <5.0 | 380 | 3.0 | 4.5 | 7.3 | 41 |
| MW-3-20 | 20 | | <5.0 | <1.0 | 0.019 | <0.005 | 0.006 | <0.010 |
| MW-4-5 | 5 | | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| MW-4-10 | 10 | | <15 | 420 | 1.7 | 2.6 | 9.2 | 51 |
| MW-4-15 | 15 | | <5.0 | 3.1 | 0.036 | 0.20 | 0.15 | 0.95 |
| MW-4-20 | 20 | | <5.0 | <1.0 | 0.007 | 0.017 | 0.010 | 0.039 |
| MW-5-5 | 5 | | <5.0 | 76 | <0.10 | <0.10 | 1.3 | 0.76 |
| MW-5-10 | 10 | | <15 | 3,200 | 4.6 | 6.5 | 72 | 410 |
| MW-5-15 | 15 | | <5.0 | 600 | 1.3 | 13 | 15 | 110 |
| MW-6-5 | 5 | | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| MW-6-10 | 10 | | <5.0 | 5.1 | 0.015 | <0.010 | 3.4 | 1.0 |
| MW-6-15 | 15 | | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| MW-6-20 | 20 | | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 |
| VW-1-5 | 5 | | <5.0 | 34 | <0.005 | <0.005 | 0.16 | 0.31 |
| VW-1-10 | 10 | | <15 | 85 | <0.10 | <0.10 | 2.2 | 0.89 |
| VW-1-15 | 15 | <15 | 420 | 2.1 | 4.1 | 9.4 | 55 | |
| VW-1-20 | 20 | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 | |
| VW-2-5 | 5 | <5.0 | <1.0 | <0.005 | <0.005 | <0.005 | <0.010 | |
| VW-2-10 | 10 | <5.0 | 130 | <0.10 | <0.10 | 2.9 | 15 | |
| VW-2-15 | 15 | <15 | 5,500 | 29 | 430 | 120 | 910 | |
| VW-2-20 | 20 | <5.0 | <1.0 | 0.14 | 0.054 | 0.025 | 0.14 | |

Notes:

- TPHd - denotes total petroleum hydrocarbons as diesel
- TPHg - denotes total petroleum hydrocarbons as gasoline
- mg/kg - denotes milligrams per kilogram
- < - denotes less than the detection limit
- denotes no data

Table 2b
Historical Soil Analytical Data
Oxygenates and Lead Scavengers
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Boring ID | Sample Depth (feet) | Collection Date | DIPE (mg/kg) | ETBE (mg/kg) | MTBE (mg/kg) | TAME (mg/kg) | TBA (mg/kg) | 1,2-DCA (mg/kg) | EDB (mg/kg) |
|----------------------------|---------------------|-----------------|--------------|--------------|--------------|--------------|-------------|-----------------|-------------|
| UST Removal Samples | | | | | | | | | |
| SS-D1 | 2 | August 2009 | <0.25 | <0.25 | <0.25 | <0.25 | <1.5 | --- | --- |
| SS-D2 | 2 | | <0.25 | <0.25 | <0.25 | <0.25 | <1.5 | --- | --- |
| SS-D3 | 2 | | <0.15 | <0.15 | <0.15 | <0.15 | <0.70 | --- | --- |
| SS-D4 | 2 | | <0.090 | <0.090 | <0.090 | <0.090 | <0.50 | --- | --- |
| SS-D5 | 2 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.15 | --- | --- |
| SS-D6 | 2 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.15 | --- | --- |
| SS-J1 | 2 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.15 | --- | --- |
| SS-Isle | 4 | | <0.025 | <0.025 | <0.025 | <0.025 | <0.15 | --- | --- |
| SS-7 | 18 | | <0.25 | <0.25 | <0.25 | <0.25 | <1.5 | <0.25 | <0.25 |
| Tank 1-SS-1 | 14 | | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | <0.50 | <0.50 |
| Tank 1-SS-2 | 14 | | <0.040 | <0.040 | 0.37 | <0.040 | 0.51 | <0.040 | <0.040 |
| Tank 2-SS-1 | 14 | | <0.050 | <0.050 | 0.18 | <0.050 | 0.35 | <0.050 | <0.050 |
| Tank 2-SS-2 | 14 | | <0.025 | <0.025 | 0.090 | <0.025 | 0.16 | <0.025 | <0.025 |
| Tank 3-SS-1 | 14 | | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | <0.50 | <0.50 |
| Tank 3-SS-2 | 14 | <0.025 | <0.025 | 0.19 | <0.025 | 0.15 | <0.025 | <0.025 | |
| Soil Borings | | | | | | | | | |
| GP-1-15.5 | 15.5 | July 2006 | <0.005 | <0.005 | 0.029 | <0.005 | 0.27 | --- | --- |
| GP-1-18.0 | 18.0 | | <0.005 | <0.005 | 0.54 | <0.005 | 0.33 | --- | --- |
| GP-2-12.0 | 12.0 | | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- |
| GP-2-20.0 | 20.0 | | <0.025 | <0.025 | 0.041 | <0.025 | <0.15 | --- | --- |
| SB-1-9.5 | 9.5 | April 2010 | <0.80 | <0.80 | <0.80 | <0.80 | <8.0 | <0.80 | <0.80 |
| SB-1-24.5 | 24.5 | | <0.005 | <0.005 | 0.11 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-1-29.5 | 29.5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-2-9.5 | 9.5 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.10 | <0.010 | <0.010 |
| SB-2-24.5 | 24.5 | | <0.005 | <0.005 | 0.053 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-2-29.5 | 29.5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-3-14.5 | 14.5 | | <2.0 | <2.0 | <2.0 | <2.0 | <20 | <2.0 | <2.0 |
| SB-3-24.5 | 24.5 | | <0.005 | <0.005 | 0.10 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-3-29.5 | 29.5 | | <0.005 | <0.005 | 0.010 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-4-14.5 | 14.5 | | <1.0 | <1.0 | <1.0 | <1.0 | <10 | <1.0 | <1.0 |
| SB-4-19.5 | 19.5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-4-29.5 | 29.5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-5-14.5 | 14.5 | | <0.20 | <0.20 | <0.20 | <0.20 | <2.0 | <0.20 | <0.20 |
| SB-5-24.5 | 24.5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-5-29.5 | 29.5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-6-9.5 | 9.5 | | <2.0 | <2.0 | <2.0 | <2.0 | <20 | <2.0 | <2.0 |
| SB-6-29.5 | 29.5 | | <0.005 | <0.005 | 0.20 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-6-32 | 32.0 | | <0.005 | <0.005 | 0.18 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-7-9.5 | 9.5 | | <1.0 | <1.0 | 4.0 | <1.0 | <10 | <1.0 | <1.0 |
| SB-7-29.5 | 29.5 | | <0.005 | <0.005 | 0.18 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-7-32 | 32.0 | <0.005 | <0.005 | 0.11 | <0.005 | <0.050 | <0.005 | <0.005 | |

Table 2b
 Historical Soil Analytical Data
 Oxygenates and Lead Scavengers
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Boring ID | Sample Depth (feet) | Collection Date | DIPE (mg/kg) | ETBE (mg/kg) | MTBE (mg/kg) | TAME (mg/kg) | TBA (mg/kg) | 1,2-DCA (mg/kg) | EDB (mg/kg) |
|--------------------------|---------------------|-----------------|--------------|--------------|--------------|--------------|-------------|-----------------|-------------|
| SB-8-9.5 | 9.5 | April 2010 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| SB-8-24.5 | 24.5 | | <0.005 | <0.005 | 0.033 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-8-29.5 | 29.5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| SB-9-14.5 | 14.5 | | <0.20 | <0.20 | 5.5 | <0.20 | <2.0 | <0.20 | <0.20 |
| SB-9-29.5 | 29.5 | | <0.005 | <0.005 | 0.090 | <0.005 | 0.15 | <0.005 | <0.005 |
| SB-9-32 | 32.0 | | <0.005 | <0.005 | 0.11 | <0.005 | <0.050 | <0.005 | <0.005 |
| Groundwater Wells | | | | | | | | | |
| MW-1-5 | 5 | June 2011 | <0.005 | <0.005 | 0.35 | <0.005 | 0.093 | <0.005 | <0.005 |
| MW-1-15 | 15 | | <0.050 | <0.050 | 1.1 | <0.050 | <0.50 | <0.050 | <0.050 |
| MW-1-20 | 20 | | <0.005 | <0.005 | 0.31 | <0.005 | 0.58 | <0.005 | <0.005 |
| MW-2-5 | 5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| MW-2-10 | 10 | | <0.050 | <0.050 | <0.050 | <0.050 | <0.50 | <0.050 | <0.050 |
| MW-2-15 | 15 | | <0.050 | <0.050 | <0.050 | <0.050 | <0.50 | <0.050 | <0.050 |
| MW-2-20 | 20 | | <0.005 | <0.005 | 0.006 | <0.005 | <0.050 | <0.005 | <0.005 |
| MW-3-5 | 5 | | <0.010 | <0.010 | 1.5 | <0.010 | 0.37 | <0.010 | <0.010 |
| MW-3-10 | 10 | | <0.80 | <0.80 | 1.3 | <0.80 | <8.0 | <0.80 | <0.80 |
| MW-3-15 | 15 | | <0.20 | <0.20 | 3.0 | <0.20 | <2.0 | <0.20 | <0.20 |
| MW-3-20 | 20 | | <0.005 | <0.005 | 0.036 | <0.005 | 0.16 | <0.005 | <0.005 |
| MW-4-5 | 5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| MW-4-10 | 10 | | <0.40 | <0.40 | <0.40 | <0.40 | <4.0 | <0.40 | <0.40 |
| MW-4-15 | 15 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.10 | <0.010 | <0.010 |
| MW-4-20 | 20 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| MW-5-5 | 5 | | <0.10 | <0.10 | <0.10 | <0.10 | <1.0 | <0.10 | <0.10 |
| MW-5-10 | 10 | | <4.0 | <4.0 | <4.0 | <4.0 | <40 | <4.0 | <4.0 |
| MW-5-15 | 15 | | <0.40 | <0.40 | <0.40 | <0.40 | <4.0 | <0.40 | <0.40 |
| MW-6-5 | 5 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.050 | <0.005 | <0.005 |
| MW-6-10 | 10 | | <0.010 | <0.010 | <0.010 | <0.010 | <0.10 | <0.010 | <0.010 |
| MW-6-15 | 15 | <0.005 | <0.005 | 0.026 | <0.005 | 0.088 | <0.005 | <0.005 | |
| MW-6-20 | 20 | <0.005 | <0.005 | 0.010 | <0.005 | 0.37 | <0.005 | <0.005 | |
| VW-1-5 | 5 | <0.050 | <0.050 | <0.050 | <0.050 | <0.50 | <0.050 | <0.050 | |
| VW-1-10 | 10 | <0.10 | <0.10 | <0.10 | <0.10 | <1.0 | <0.10 | <0.10 | |
| VW-1-15 | 15 | <0.40 | <0.40 | 0.59 | <0.40 | <4.0 | <0.40 | <0.40 | |
| VW-1-20 | 20 | <0.005 | <0.005 | 0.009 | <0.005 | 0.16 | <0.005 | <0.005 | |
| VW-2-5 | 5 | <0.005 | <0.005 | 0.25 | <0.005 | 0.14 | <0.005 | <0.005 | |
| VW-2-10 | 10 | <0.10 | <0.10 | 0.33 | <0.10 | <1.0 | <0.10 | <0.10 | |
| VW-2-15 | 15 | <4.0 | <4.0 | <4.0 | <4.0 | <40 | <4.0 | <4.0 | |
| VW-2-20 | 20 | <0.005 | <0.005 | 0.008 | <0.005 | 0.26 | <0.005 | <0.005 | |

Notes:

| | |
|---|--|
| mg/kg - denotes milligrams per kilogram | MTBE - denotes methyl tertiary butyl ether |
| < - denotes less than the detection limit | DIPE - denotes di-isopropyl ether |
| --- - denotes not analyzed/applicable | ETBE - denotes ethyl tertiary butyl ether |
| DCA - denotes dichloroethane | TAME - denotes tertiary amyl ether |
| EDB - denotes ethylene dibromide | TBA - denotes tertiary butyl alcohol |

Table 3a
Grab Groundwater Sample Results
TPH and BTEX
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Sample ID | Collection Date | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) |
|---|-----------------|-------------|-------------|----------------|----------------|---------------------|----------------------|
| Excavation | | | | | | | |
| Pit Sample 1 | August 2009 | 21,000 | 21,000 | 3,800 | 1,000 | 1,200 | 3,700 |
| Direct Push Grab Groundwater Samples | | | | | | | |
| SB-1 | April 2010 | --- | 60 | 2.9 | 6.7 | 2.1 | 9.7 |
| SB-2 | | --- | <50 | <0.5 | <0.5 | <0.5 | <1.0 |
| SB-3 | | --- | 170 | 1.5 | 11 | 4.8 | 27 |
| SB-4 | | --- | 6,500 | 78 | 440 | 190 | 960 |
| SB-5 | | --- | <50 | <0.5 | <0.5 | <0.5 | <1.0 |
| SB-6 | | --- | 440 | <20 | <20 | <20 | <40 |
| SB-7 | | --- | 270 | <12 | <12 | <12 | <25 |
| SB-8 | | --- | <50 | 0.6 | 1.3 | 0.6 | 3.3 |
| SB-9 | | --- | <50 | <10 | <10 | <10 | <20 |
| SB-10 | December 2011 | --- | <50 | <0.5 | <0.5 | <0.5 | <1.0 |
| SB-11 | | --- | 2,300 | 83 | 1.9 | 140 | 43 |
| SB-12 | | --- | 4,700 | 620 | 290 | 84 | 400 |
| SB-13 | | --- | 400 | 51 | 2.4 | 4.2 | 9.7 |
| SB-14 | | --- | <50 | 1.7 | <0.5 | 2.1 | <1.0 |
| SB-15 | | --- | 320 | 32 | 0.7 | 33 | 25 |
| SB-16 | | --- | 4,800 | 1,600 | 10 | 49 | <20 |
| SB-17 | | --- | 990 | 290 | 7.2 | 27 | 4.3 |
| SB-18 | | --- | 560 | 8.7 | 4.9 | 23 | 83 |
| SB-19 | | --- | 260 | 7.1 | <0.5 | 16 | 7.0 |
| SB-21 | | --- | <50 | <0.5 | <0.5 | <0.5 | <1.0 |

Notes:

- TPHd - denotes total petroleum hydrocarbons as diesel
- TPHg - denotes total petroleum hydrocarbons as gasoline
- ug/L - denotes micrograms per liter
- < - denotes less than the detection limit
- denotes not analyzed/applicable

Table 3b
Grab Groundwater Sample Results
Oxygenates and Lead Scavengers
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Sample ID | Collection Date | DIPE (ug/L) | ETBE (ug/L) | MTBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
|---|-----------------|-------------|-------------|-------------|-------------|------------|----------------|------------|
| Excavation | | | | | | | | |
| Water | February 2000 | <10 | <10 | 15,000 | 39 | 17,000 | <10 | <10 |
| Direct Push Grab Groundwater Samples | | | | | | | | |
| SB-1 | April 2010 | <0.5 | <0.5 | 14 | <0.5 | <5.0 | <0.5 | <0.5 |
| SB-2 | | <0.5 | <0.5 | 45 | <0.5 | <5.0 | <0.5 | <0.5 |
| SB-3 | | <0.5 | <0.5 | 110 | <0.5 | 32 | <0.5 | <0.5 |
| SB-4 | | <5.0 | <5.0 | <5.0 | <5.0 | <50 | <5.0 | <5.0 |
| SB-5 | | <0.5 | <0.5 | 0.6 | <0.5 | <5.0 | <0.5 | <0.5 |
| SB-6 | | <20 | <20 | 4,000 | <20 | <200 | <20 | <20 |
| SB-7 | | <12 | <12 | 2,500 | <12 | <120 | <12 | <12 |
| SB-8 | | <0.5 | <0.5 | 26 | <0.5 | 98 | <0.5 | <0.5 |
| SB-9 | | <10 | <10 | 1,800 | <10 | 5,300 | <10 | <10 |
| SB-10 | December 2011 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 |
| SB-11 | | <1.0 | <1.0 | 22 | <1.0 | 140 | <1.0 | <1.0 |
| SB-12 | | <5.0 | <5.0 | 100 | <5.0 | 550 | <5.0 | <5.0 |
| SB-13 | | <2.0 | <2.0 | 39 | <2.0 | 3,900 | <2.0 | <2.0 |
| SB-14 | | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 |
| SB-15 | | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 |
| SB-16 | | <10 | <10 | <10 | <10 | <100 | <10 | <10 |
| SB-17 | | <2.0 | <2.0 | <2.0 | <2.0 | <20 | <2.0 | <2.0 |
| SB-18 | | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 |
| SB-19 | | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 |
| SB-21 | | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 |

Notes:

- | | |
|--|---|
| ug/L - denotes micrograms per liter | DIPE - denotes di-isopropyl ether |
| < - denotes less than the detection limit | ETBE - denotes ethyl tertiary butyl ether |
| DCA - denotes dichloroethane | TAME - denotes tertiary amyl ether |
| EDB - denotes ethylene dibromide | TBA - denotes tertiary butyl alcohol |
| MTBE - denotes methyl tertiary butyl ether | |

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | Depth to Groundwater (ft bgs) | Groundwater Elevation (ft amsl) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) |
|-------------------------|---------------|-------------------------------|---------------------------------|-------------|---------------|----------------|----------------|---------------------|----------------------|
| Monitoring Wells | | | | | | | | | |
| MW-1 | 6/23/2011 | 10.46 | 20.35 | <250 | 23,000 | 4,500 | 820 | 1,700 | 3,800 |
| | 9/22/2011 | 12.13 | 18.68 | <50 | 21,000 | 4,000 | 1,500 | 980 | 3,000 |
| | 12/11/2011 | 11.69 | 19.12 | --- | 23,000 | 2,900 | 1,000 | 720 | 3,000 |
| | 3/30/2012 | Inaccessible | | | | | | | |
| | 6/1/2012 | 11.04 | 19.77 | --- | 40,000 | 4,100 | 800 | 2,700 | 6,100 |
| | 9/14/2012 | 12.96 | 17.85 | <100 | 20,000 | 2,700 | 160 | 830 | 2,600 |
| | 3/27/2013 | 8.57 | 22.24 | <50 | 15,000 | 1,700 | 150 | 400 | 830 |
| | 5/20/2013 | 8.57 | 22.24 | <100 | 22,000 | 2,800 | 870 | 560 | 2,000 |
| | 9/4/2013 | 9.29 | 21.52 | <250 | 12,000 | 2,900 | 130 | 190 | 370 |
| | 12/6/2013 | 9.11 | 21.70 | <120 | 15,000 | 3,000 | 780 | 580 | 2,400 |
| | 6/27/2014 | 8.92 | 21.89 | <120 | 15,000 | 2,500 | 280 | 2,400 | 2,400 |
| | 9/19/2014 | 10.98 | 19.83 | --- | 11,000 | 530 | 190 | 460 | 950 |
| | 12/15/2014 | 7.66 | 23.15 | --- | 11,000 | 1,100 | 140 | 310 | 420 |
| | 3/31/2015 | 8.81 | 22.00 | --- | 38,000 | 1,200 | 230 | 810 | 2,600 |
| | 9/18/2015 | 12.23 | 18.58 | --- | 7,600 | 890 | 38 | 240 | 360 |
| | 12/16/2015 | 12.02 | 18.79 | --- | 8,900 | 580 | 16 | 110 | 110 |
| | 3/22/2016 | 10.48 | 20.33 | --- | 18,000 | 690 | 66 | 540 | 1,900 |
| | 9/23/2016 | 9.01 | 21.80 | --- | 20,000 | 1,400 | 90 | 1,100 | 4,500 |
| | 3/28/2017 | 8.73 | 22.08 | --- | 47,000 | 1,600 | 270 | 3,600 | 9,000 |
| MW-2 | 6/23/2011 | 10.70 | 20.59 | <250 | 13,000 | 1,000 | 160 | 370 | 1,600 |
| | 9/22/2011 | 12.42 | 18.87 | <50 | 12,000 | 300 | 130 | 470 | 1,400 |
| | 12/11/2011 | 11.98 | 19.31 | --- | 8,300 | 170 | 120 | 450 | 1,500 |
| | 3/30/2012 | 8.55 | 22.74 | <250 | 17,000 | 850 | 700 | 710 | 2,900 |
| | 6/1/2012 | 11.26 | 20.03 | --- | 5,300 | 830 | 260 | 630 | 1,700 |
| | 9/14/2012 | 13.11 | 18.18 | <50 | 10,000 | 260 | 190 | 600 | 1,900 |
| | 3/27/2013 | 9.43 | 21.86 | <50 | 12,000 | 440 | 98 | 320 | 810 |
| | 5/20/2013 | 9.41 | 21.88 | <100 | 6,600 | 300 | 74 | 190 | 500 |
| | 9/4/2013 | 10.11 | 21.18 | <100 | 5,300 | 300 | 50 | 180 | 280 |
| | 12/6/2013 | 9.93 | 21.36 | <50 | 4,300 | 280 | 39 | 140 | 160 |
| | 6/27/2014 | 9.93 | 21.36 | <50 | 1,300 | 200 | 22 | 85 | 160 |
| | 9/19/2014 | 12.49 | 18.80 | --- | 990 | 42 | 12 | 97 | 110 |
| | 12/15/2014 | 8.65 | 22.64 | --- | 85 | 14 | 3.3 | 5.2 | 13 |
| | 3/31/2015 | 9.83 | 21.46 | --- | --- | --- | --- | --- | --- |
| | 9/18/2015 | 12.45 | 18.84 | --- | 1,300 | 29 | 8.9 | 44 | 120 |
| | 12/16/2015 | 12.57 | 18.72 | --- | 880 | 8.2 | 2.9 | 16 | 30 |
| | 3/22/2016 | 11.11 | 20.18 | --- | 900 | 7.3 | 2.4 | 3.7 | 16 |
| | 9/23/2016 | 9.90 | 21.39 | --- | 570 | 10 | 2.9 | 13 | 37 |
| | 3/28/2017 | 9.42 | 21.87 | --- | 3,000 | 120 | 6.2 | 39 | 64 |

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | Depth to Groundwater (ft bgs) | Groundwater Elevation (ft amsl) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) |
|-------------|---------------|-------------------------------|---------------------------------|-------------|-------------|----------------|----------------|---------------------|----------------------|
| MW-3 | 6/23/2011 | 10.79 | 20.51 | <250 | 55,000 | 15,000 | 3,600 | 2,000 | 4,300 |
| | 9/22/2011 | 12.60 | 18.70 | <250 | 77,000 | 15,000 | 3,900 | 1,700 | 4,900 |
| | 12/11/2011 | 12.13 | 19.17 | --- | 64,000 | 12,000 | 3,100 | 1,600 | 4,500 |
| | 3/30/2012 | 7.90 | 23.40 | <120 | 100,000 | 17,000 | 10,000 | 2,000 | 8,400 |
| | 6/1/2012 | 11.47 | 19.83 | --- | 83,000 | 15,000 | 6,000 | 2,900 | 10,000 |
| | 9/14/2012 | 13.42 | 17.88 | <200 | 69,000 | 10,000 | 1,500 | 1,800 | 5,900 |
| | 3/27/2013 | 9.15 | 22.15 | <200 | 63,000 | 7,100 | 2,100 | 1,900 | 7,700 |
| | 5/20/2013 | 9.16 | 22.14 | <250 | 80,000 | 9,700 | 2,900 | 2,400 | 8,600 |
| | 9/4/2013 | 9.87 | 21.43 | <250 | 47,000 | 7,200 | 470 | 1,200 | 5,000 |
| | 12/6/2013 | 9.69 | 21.61 | <50 | 19,000 | 5,600 | 240 | 520 | 1,600 |
| | 6/27/2014 | 9.49 | 21.81 | <50 | 12,000 | 5,800 | 240 | 860 | 760 |
| | 9/19/2014 | 11.62 | 19.68 | --- | 9,500 | 610 | 160 | 220 | 400 |
| | 12/15/2014 | 8.10 | 23.20 | --- | 1,300 | 260 | 69 | 39 | 120 |
| | 3/31/2015 | 9.37 | 21.93 | --- | 13,000 | 1,300 | 270 | 230 | 700 |
| | 9/18/2015 | 13.13 | 18.17 | --- | 8,300 | 1,000 | 150 | 150 | 440 |
| | 12/16/2015 | 13.09 | 18.21 | --- | 11,000 | 1,100 | 130 | 290 | 350 |
| 3/22/2016 | 11.39 | 19.91 | --- | 1,500 | 230 | 23 | 14 | 53 | |
| 9/23/2016 | 9.57 | 21.73 | --- | 4,200 | 640 | 51 | 58 | 140 | |
| 3/28/2017 | 9.20 | 22.10 | --- | 1,200 | 47 | 20 | 11 | 67 | |
| MW-4 | 6/23/2011 | 10.62 | 20.59 | <250 | 47,000 | 3,500 | 7,100 | 2,300 | 11,000 |
| | 9/22/2011 | 12.25 | 18.96 | <250 | 46,000 | 2,000 | 2,400 | 1,100 | 5,300 |
| | 12/11/2011 | 11.89 | 19.32 | --- | 46,000 | 2,100 | 3,400 | 1,800 | 7,000 |
| | 3/30/2012 | 8.51 | 22.70 | <250 | 60,000 | 6,800 | 8,200 | 1,200 | 5,700 |
| | 6/1/2012 | 11.14 | 20.07 | --- | 72,000 | 9,700 | 8,500 | 2,300 | 9,000 |
| | 9/14/2012 | 12.97 | 18.24 | <50 | 15,000 | 940 | 880 | 450 | 1,700 |
| | 3/27/2013 | 9.05 | 22.16 | <50 | 25,000 | 1,800 | 2,200 | 660 | 2,500 |
| | 5/20/2013 | 9.03 | 22.18 | <250 | 18,000 | 1,600 | 1,700 | 470 | 1,900 |
| | 9/4/2013 | 9.68 | 21.53 | <50 | 15,000 | 510 | 410 | 260 | 820 |
| | 12/6/2013 | 9.54 | 21.67 | <50 | 9,600 | 630 | 650 | 240 | 970 |
| | 6/27/2014 | 9.58 | 21.63 | <50 | 3,300 | 550 | 2,900 | 200 | 420 |
| | 9/19/2014 | 11.61 | 19.60 | --- | 2,100 | 110 | 54 | 92 | 210 |
| | 12/15/2014 | 8.45 | 22.76 | --- | 720 | 58 | 32 | 29 | 33 |
| | 3/31/2015 | 9.46 | 21.75 | --- | --- | --- | --- | --- | --- |
| | 9/18/2015 | 12.03 | 19.18 | --- | 17,000 | 130 | 33 | 70 | 200 |
| | 12/16/2015 | 12.41 | 18.80 | --- | 8,200 | 160 | 44 | 88 | 130 |
| 3/22/2016 | 11.22 | 19.99 | --- | 1,900 | 88 | 71 | 43 | 91 | |
| 9/23/2016 | 9.45 | 21.76 | --- | 2,700 | 520 | 85 | 54 | 120 | |
| 3/28/2017 | 9.22 | 21.99 | --- | 4,500 | 700 | 56 | 140 | 300 | |

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | Depth to Groundwater (ft bgs) | Groundwater Elevation (ft amsl) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) |
|-------------|---------------|-------------------------------|---------------------------------|----------------------------|-------------|----------------|----------------|---------------------|----------------------|
| MW-5 | 6/23/2011 | 10.12 | 21.23 | <250 | 130,000 | 7,100 | 25,000 | 13,000 | 94,000 |
| | 9/22/2011 | 12.53 | 18.82 | <250 | 120,000 | 6,900 | 7,600 | 3,800 | 17,000 |
| | 12/11/2011 | 12.09 | 19.26 | --- | 110,000 | 7,800 | 14,000 | 4,200 | 20,000 |
| | 3/30/2012 | 8.06 | 23.29 | Sheen - not sampled | | | | | |
| | 6/1/2012 | 11.38 | 19.97 | Sheen - not sampled | | | | | |
| | 9/14/2012 | 13.61 | 17.74 | Free product - not sampled | | | | | |
| | 3/27/2013 | 9.21 | 22.14 | Free product - not sampled | | | | | |
| | 5/20/2013 | 9.17 | 22.18 | Free product - not sampled | | | | | |
| | 9/4/2013 | 9.70 | 21.65 | Free product - not sampled | | | | | |
| | 12/6/2013 | 9.67 | 21.68 | <250 | 81,000 | 10,000 | 13,000 | 5,500 | 21,000 |
| | 6/27/2014 | 9.51 | 21.84 | Free product - not sampled | | | | | |
| | 9/19/2014 | 12.91 | 18.44 | --- | 56,000 | 1,000 | 270 | 1,000 | 4,100 |
| | 12/15/2014 | --- | --- | --- | 13,000 | 840 | 530 | 450 | 1,700 |
| | 3/31/2015 | 9.36 | 21.99 | --- | 34,000 | 1,100 | 570 | 500 | 2,000 |
| | 9/18/2015 | --- | --- | --- | 9,800 | 290 | 23 | 140 | 270 |
| | 12/16/2015 | --- | --- | --- | 6,100 | 220 | 5.8 | 92 | 35 |
| | 3/22/2016 | 12.26 | 19.09 | --- | 6,300 | 320 | 58 | 190 | 480 |
| | 9/23/2016 | --- | --- | --- | 10,000 | 350 | 48 | 230 | 930 |
| | 3/28/2017 | --- | --- | --- | 9,700 | 310 | 68 | 580 | 1,200 |
| MW-6 | 6/23/2011 | 10.43 | 20.36 | <250 | 11,000 | 2,400 | 120 | 480 | 840 |
| | 9/22/2011 | 12.10 | 18.69 | <50 | 15,000 | 1,500 | 270 | 880 | 2,500 |
| | 12/11/2011 | 11.69 | 19.10 | --- | 13,000 | 660 | 190 | 610 | 1,500 |
| | 3/30/2012 | 7.50 | 23.29 | <250 | 9,500 | 1,200 | 160 | 250 | 520 |
| | 6/1/2012 | 11.04 | 19.75 | --- | 23,000 | 2,200 | 220 | 1,300 | 3,000 |
| | 9/14/2012 | 12.96 | 17.83 | <50 | 14,000 | 1,000 | 86 | 420 | 1,200 |
| | 3/27/2013 | --- | --- | Inaccessible | | | | | |
| | 5/20/2013 | --- | --- | Inaccessible | | | | | |
| | 9/4/2013 | 9.19 | 21.60 | <100 | 9,500 | 1,400 | 120 | 1,400 | 1,600 |
| | 12/6/2013 | 9.03 | 21.76 | <100 | 14,000 | 1,200 | 24 | 1,400 | 810 |
| | 6/27/2014 | 8.80 | 21.99 | <100 | 9,800 | 1,200 | 75 | 2,800 | 530 |
| | 9/19/2014 | 10.68 | 20.11 | --- | 6,500 | 240 | 21 | 490 | 110 |
| | 12/15/2014 | 7.62 | 23.17 | --- | 4,700 | 520 | 25 | 110 | 43 |
| | 3/31/2015 | 8.75 | 22.04 | --- | 10,000 | 330 | 12 | 80 | 73 |
| | 9/18/2015 | 11.61 | 19.18 | --- | 7,000 | 430 | 24 | 120 | 110 |
| 12/16/2015 | 11.58 | 19.21 | --- | 8,200 | 460 | 12 | 17 | 26 | |
| 3/22/2016 | 10.10 | 20.69 | --- | 5,900 | 380 | 15 | 87 | 83 | |
| 9/23/2016 | 8.90 | 21.89 | --- | 7,700 | 170 | <5.0 | 8.0 | <10 | |
| 3/28/2017 | 8.70 | 22.09 | --- | 8,100 | 190 | 11 | 100 | 130 | |

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | Depth to Groundwater (ft bgs) | Groundwater Elevation (ft amsl) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) |
|------------------|---------------|-------------------------------|---------------------------------|-------------|--------------|----------------|----------------|----------------------|----------------------|
| DPE Wells | | | | | | | | | |
| EW-1 | 6/28/2011 | --- | --- | --- | 20,000 | 2,000 | 490 | 1,000 | 2,400 |
| | 9/22/2011 | 12.55 | 18.71 | <120 | 39,000 | 3,900 | 610 | 1,400 | 4,600 |
| | 12/11/2011 | 12.09 | 19.17 | --- | 27,000 | 2,600 | 270 | 1,400 | 4,400 |
| | 3/30/2012 | 8.06 | 23.20 | <120 | 21,000 | 3,100 | 160 | 910 | 2,300 |
| | 6/1/2012 | 11.42 | 19.84 | --- | 21,000 | 2,800 | 100 | 1,200 | 3,100 |
| | 9/14/2012 | 13.37 | 17.89 | <50 | 22,000 | 1,900 | 50 | 1,000 | 2,600 |
| | 3/27/2013 | 9.06 | 22.20 | <50 | 15,000 | 630 | 36 | 360 | 590 |
| | 5/20/2013 | 9.06 | 22.20 | <100 | 11,000 | 600 | 28 | 210 | 350 |
| | 9/4/2013 | 9.77 | 21.49 | <50 | 9,300 | 610 | 19 | 170 | 250 |
| | 12/6/2013 | 9.63 | 21.83 | <100 | 11,000 | 740 | 17 | 260 | 340 |
| | 6/27/2014 | 9.55 | 21.91 | <100 | 12,000 | 1,400 | 210 | 1,900 | 2,400 |
| | 9/19/2014 | 12.41 | 19.05 | --- | 28,000 | 1,000 | 450 | 1,400 | 3,900 |
| | 12/15/2014 | 8.20 | 23.26 | --- | 4,000 | 560 | 29 | 150 | 150 |
| | 3/31/2015 | 9.30 | 22.16 | --- | --- | --- | --- | --- | --- |
| | 9/18/2015 | 13.25 | 18.21 | --- | 6,900 | 370 | 5.5 | 190 | 210 |
| | 12/16/2015 | 13.22 | 18.24 | --- | 6,000 | 250 | 3.3 | 31 | 31 |
| | 3/22/2016 | 11.54 | 19.92 | --- | 3,900 | 200 | <5.0 | 46 | 33 |
| | 9/23/2016 | 9.51 | 21.95 | --- | 6,200 | 130 | <5.0 | 35 | 24 |
| | 3/28/2017 | 9.24 | 22.22 | --- | 9,000 | 210 | 3.2 | 55 | 95 |
| EW-2 | 6/28/2011 | --- | --- | --- | 33,000 | 3,100 | 2,000 | 790 | 3,500 |
| | 9/22/2011 | 12.50 | 18.90 | <250 | 66,000 | 2,400 | 4,500 | 2,000 | 11,000 |
| | 12/11/2011 | 12.12 | 19.28 | --- | 70,000 | 2,800 | 6,900 | 2,700 | 13,000 |
| | 3/30/2012 | 8.48 | 22.92 | <250 | 57,000 | 5,800 | 5,500 | 1,200 | 5,400 |
| | 6/1/2012 | 11.40 | 20.00 | --- | 82,000 | 8,800 | 8,600 | 3,300 | 13,000 |
| | 9/14/2012 | 13.27 | 18.13 | <100 | 32,000 | 2,600 | 2,400 | 1,000 | 4,500 |
| | 3/27/2013 | 9.24 | 22.16 | <100 | 18,000 | 940 | 790 | 390 | 1,700 |
| | 5/20/2013 | 9.21 | 22.19 | <50 | 10,000 | 540 | 430 | 220 | 790 |
| | 9/4/2013 | 9.88 | 21.52 | <250 | 10,000 | 680 | 580 | 480 | 1,700 |
| | 12/6/2013 | 9.96 | 21.47 | <50 | 13,000 | 620 | 380 | 350 | 1,600 |
| | 6/27/2014 | 9.85 | 21.58 | <50 | 27,000 | 3,200 | 5,600 | 1,200 | 8,000 |
| | 9/19/2014 | 16.80 | 14.63 | --- | 18,000 | 690 | 1,300 | 360 | 2,400 |
| | 12/15/2014 | 8.73 | 22.70 | --- | 11,000 | 510 | 500 | 160 | 1,100 |
| | 3/31/2015 | 9.90 | 21.53 | --- | --- | --- | --- | --- | --- |
| | 9/18/2015 | 15.10 | 16.33 | --- | 16,000 | 1,400 | 2,400 | 520 | 3,400 |
| | 12/16/2015 | 16.57 | 14.86 | --- | 29,000 | 1,400 | 3,300 | 400 | 2,500 |
| | 3/22/2016 | 16.56 | 14.87 | --- | 22,000 | 820 | 2,100 | 420 | 2,800 |
| | 9/23/2016 | 9.82 | 21.61 | --- | 6,500 | 37 | 38 | 29 | 170 |
| | 3/28/2017 | 9.54 | 21.89 | --- | 7,100 | 64 | 33 | 51 | 260 |

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | Depth to Groundwater (ft bgs) | Groundwater Elevation (ft amsl) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) |
|----------------|---------------|-------------------------------|---------------------------------|-------------|-------------|----------------|----------------|----------------------|----------------------|
| EW-3 | 5/20/2013 | 8.82 | --- | <50 | 1,300 | 430 | 540 | 280 | 1,000 |
| | 9/4/2013 | 9.49 | --- | <100 | 9,800 | 480 | 220 | 560 | 1,800 |
| | 12/6/2013 | 10.05 | --- | <50 | 10,000 | 810 | 580 | 260 | 1,100 |
| | 6/27/2014 | 9.90 | --- | <50 | 27,000 | 4,300 | 4,300 | 1,200 | 7,900 |
| | 9/19/2014 | 13.00 | --- | --- | 15,000 | 670 | 650 | 530 | 2,400 |
| | 12/15/2014 | 8.20 | --- | --- | 26,000 | 1,200 | 1,100 | 350 | 2,000 |
| | 3/31/2015 | 9.31 | --- | --- | 8,000 | 170 | 18 | 130 | 560 |
| | 9/18/2015 | 13.98 | --- | --- | 12,000 | 340 | 110 | 180 | 1,900 |
| | 12/16/2015 | 14.31 | --- | --- | 11,000 | 360 | 75 | 110 | 920 |
| | 3/22/2016 | 12.63 | --- | --- | 5,700 | 120 | 6.7 | 90 | 170 |
| | 9/23/2016 | 9.46 | --- | --- | 2,800 | 26 | 2.2 | 60 | 61 |
| | 3/28/2017 | 9.21 | --- | --- | 4,100 | 150 | 3.9 | 41 | 32 |
| | EW-4 | 5/20/2013 | 9.12 | --- | <50 | 8,100 | 720 | 160 | 94 |
| 9/4/2013 | | 9.85 | --- | <250 | 11,000 | 990 | 580 | 310 | 1,200 |
| 12/6/2013 | | 9.62 | --- | <50 | 4,400 | 150 | 170 | 140 | 670 |
| 6/27/2014 | | 9.47 | --- | <50 | 8,400 | 1,500 | 940 | 540 | 2,100 |
| 9/19/2014 | | 12.48 | --- | --- | 9,000 | 680 | 1,600 | 450 | 3,000 |
| 12/15/2014 | | 8.50 | --- | --- | 7,700 | 570 | 170 | 320 | 1,000 |
| 3/31/2015 | | 9.78 | --- | --- | 23,000 | 1,000 | 1,200 | 420 | 1,700 |
| 9/18/2015 | | 15.45 | --- | --- | 7,200 | 860 | 62 | 55 | 130 |
| 12/16/2015 | | 16.08 | --- | --- | 5,200 | 1,200 | 35 | 40 | 81 |
| 3/22/2016 | | 16.74 | --- | --- | 7,400 | 920 | 83 | 120 | 350 |
| 9/23/2016 | | 9.95 | --- | --- | 8,200 | 350 | 27 | 70 | 670 |
| 3/28/2017 | | 9.50 | --- | --- | 10,000 | 460 | 12 | 190 | 690 |

Notes:

- TOC - denotes top of casing elevation
- TPHg - denotes total petroleum hydrocarbons as gasoline
- TPHd - denotes total petroleum hydrocarbons as diesel
- ft bgs - denotes feet below top of casing
- ft amsl - denotes feet above mean sea level
- ug/L - denotes micrograms per liter
- < - denotes less than the detection limit
- - denotes not available/applicable
- FLH - denotes floating liquid hydrocarbons
- * - denotes less than six inches of water and considered dry

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | DIPE (ug/L) | ETBE (ug/L) | MTBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | |
|-------------------------|---------------|--------------|-------------|-------------|-------------|------------|----------------|------------|--|
| Monitoring Wells | | | | | | | | | |
| MW-1 | 6/23/2011 | <25 | <25 | 3,000 | <25 | 3,900 | <25 | <25 | |
| | 9/22/2011 | <50 | <50 | 2,600 | <50 | 2,500 | <50 | <50 | |
| | 12/11/2011 | <20 | <20 | 1,800 | <20 | 1,600 | <20 | <20 | |
| | 3/30/2012 | Inaccessible | | | | | | | |
| | 6/1/2012 | <20 | <20 | 2,800 | <20 | 1,300 | <20 | <20 | |
| | 9/14/2012 | <10 | <10 | 2,200 | <10 | 1,600 | <10 | <10 | |
| | 3/27/2013 | <0.5 | <0.5 | 590 | <0.5 | 350 | <0.5 | <0.5 | |
| | 5/20/2013 | <10 | <10 | 1,100 | <10 | 620 | <10 | <10 | |
| | 9/4/2013 | <10 | <10 | 240 | <10 | <100 | <10 | <10 | |
| | 12/6/2013 | <5.0 | <5.0 | 350 | <50 | <100 | <5.0 | <5.0 | |
| | 6/27/2014 | <10 | <10 | 97 | <10 | <100 | <10 | <10 | |
| | 9/19/2014 | <10 | <10 | 150 | <10 | <100 | <10 | <10 | |
| | 12/15/2014 | <0.5 | <0.5 | 310 | <0.5 | 98 | <0.5 | <0.5 | |
| | 3/31/2015 | <5.0 | <5.0 | 330 | <5.0 | <50 | <5.0 | <5.0 | |
| | 9/18/2015 | <5.0 | <5.0 | 150 | <5.0 | <50 | <5.0 | <5.0 | |
| | 12/16/2015 | <5.0 | <5.0 | 57 | <5.0 | <50 | <5.0 | <5.0 | |
| | 3/22/2016 | <50 | <50 | <50 | <50 | <500 | <50 | <50 | |
| 9/23/2016 | <0.5 | <0.5 | 250 | <0.5 | 250 | <0.5 | <0.5 | | |
| 3/28/2017 | <20 | <20 | 340 | <20 | 470 | <20 | <20 | | |
| | | | | | | | | | |
| MW-2 | 6/23/2011 | <10 | <10 | 240 | <10 | 640 | <10 | <10 | |
| | 9/22/2011 | <5.0 | <5.0 | 110 | <5.0 | 260 | <5.0 | <5.0 | |
| | 12/11/2011 | <2.5 | <2.5 | 45 | <2.5 | 110 | <2.5 | <2.5 | |
| | 3/30/2012 | <5.0 | <5.0 | 140 | <5.0 | 490 | <5.0 | <5.0 | |
| | 6/1/2012 | <5.0 | <5.0 | 180 | <5.0 | 490 | <5.0 | <5.0 | |
| | 9/14/2012 | <5.0 | <5.0 | 65 | <5.0 | 190 | <5.0 | <5.0 | |
| | 3/27/2013 | <0.5 | <0.5 | 120 | <0.5 | 930 | <0.5 | <0.5 | |
| | 5/20/2013 | <2.5 | <2.5 | 120 | <2.5 | 1,800 | <2.5 | <2.5 | |
| | 9/4/2013 | <5.0 | <5.0 | 100 | <5.0 | 780 | <5.0 | <5.0 | |
| | 12/6/2013 | <5.0 | <5.0 | 63 | <5.0 | 230 | <5.0 | <5.0 | |
| | 6/27/2014 | <5.0 | <5.0 | 21 | <5.0 | <50 | <5.0 | <5.0 | |
| | 9/19/2014 | <5.0 | <5.0 | 16 | <5.0 | <50 | <5.0 | <5.0 | |
| | 12/15/2014 | <0.5 | <0.5 | 7.3 | <0.5 | 23 | <0.5 | <0.5 | |
| | 3/31/2015 | --- | --- | --- | --- | --- | --- | --- | |
| | 9/18/2015 | <0.5 | <0.5 | 4.1 | <0.5 | <5.0 | <0.5 | <0.5 | |
| | 12/16/2015 | <0.5 | <0.5 | 1.0 | <0.5 | <5.0 | <0.5 | <0.5 | |
| | 3/22/2016 | <0.5 | <0.5 | <0.5 | <0.5 | 3.7 | <0.5 | <0.5 | |
| 9/23/2016 | <0.5 | <0.5 | 5.3 | <0.5 | <5.0 | <0.5 | <0.5 | | |
| 3/28/2017 | <0.5 | <0.5 | 10 | <0.5 | <5.0 | <0.5 | <0.5 | | |
| | | | | | | | | | |

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | DIPE (ug/L) | ETBE (ug/L) | MTBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
|----------------|---------------|-------------|-------------|-------------|-------------|------------|----------------|------------|
| MW-3 | 6/23/2011 | <100 | <100 | 8,200 | <100 | 6,400 | <100 | <100 |
| | 9/22/2011 | <100 | <100 | 11,000 | <100 | 2,800 | <100 | <100 |
| | 12/11/2011 | <100 | <100 | 7,400 | <100 | 1,800 | <100 | <100 |
| | 3/30/2012 | <100 | <100 | 13,000 | <100 | <1,000 | <100 | <100 |
| | 6/1/2012 | <50 | <50 | 12,000 | <50 | <500 | <50 | <50 |
| | 9/14/2012 | <50 | <50 | 9,400 | <50 | <500 | <50 | <50 |
| | 3/27/2013 | <0.5 | <0.5 | 7,900 | <0.5 | 3,800 | <0.5 | <0.5 |
| | 5/20/2013 | <25 | <25 | 10,000 | <25 | 5,000 | <25 | <25 |
| | 9/4/2013 | <25 | <25 | 5,300 | <25 | 2,100 | <25 | <25 |
| | 12/6/2013 | <25 | <25 | 1,400 | <25 | 640 | <25 | <25 |
| | 6/27/2014 | <25 | <25 | 520 | <25 | 260 | <25 | <25 |
| | 9/19/2014 | <25 | <25 | 390 | <25 | 370 | <25 | <25 |
| | 12/15/2014 | <0.5 | <0.5 | 110 | <0.5 | 140 | <0.5 | <0.5 |
| | 3/31/2015 | <5.0 | <5.0 | 980 | <5.0 | 610 | <5.0 | <5.0 |
| | 9/18/2015 | <5.0 | <5.0 | 410 | <5.0 | 410 | <5.0 | <5.0 |
| | 12/16/2015 | <5.0 | <5.0 | 290 | <5.0 | <50 | <5.0 | <5.0 |
| | 3/22/2016 | <5.0 | <5.0 | 71 | <5.0 | 56 | <5.0 | <5.0 |
| 9/23/2016 | <5.0 | <5.0 | 380 | <5.0 | <50 | <5.0 | <5.0 | |
| 3/28/2017 | <5.0 | <5.0 | 19 | <5.0 | 95 | <5.0 | <5.0 | |
| MW-4 | 6/23/2011 | <50 | <50 | <50 | <50 | <500 | <50 | <50 |
| | 9/22/2011 | <25 | <25 | <25 | <25 | <250 | <25 | <25 |
| | 12/11/2011 | <25 | <25 | <25 | <25 | <250 | <25 | <25 |
| | 3/30/2012 | <50 | <50 | 56 | <50 | <500 | <50 | <50 |
| | 6/1/2012 | <50 | <50 | 180 | <50 | <500 | <50 | <50 |
| | 9/14/2012 | <20 | <20 | <20 | <20 | <200 | <20 | <20 |
| | 3/27/2013 | <0.5 | <0.5 | 77 | <0.5 | 450 | <0.5 | <0.5 |
| | 5/20/2013 | <10 | <10 | 61 | <10 | 360 | <10 | <10 |
| | 9/4/2013 | <2.5 | <2.5 | 17 | <2.5 | 64 | <2.5 | <2.5 |
| | 12/6/2013 | <2.5 | <2.5 | 6.6 | <2.5 | <25 | <2.5 | <2.5 |
| | 6/27/2014 | <2.5 | <2.5 | <2.5 | <2.5 | <25 | <2.5 | <2.5 |
| | 9/19/2014 | <2.5 | <2.5 | <2.5 | <2.5 | <25 | <2.5 | <2.5 |
| | 12/15/2014 | <0.5 | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 |
| | 3/31/2015 | --- | --- | --- | --- | --- | --- | --- |
| | 9/18/2015 | <1.0 | <1.0 | <1.0 | <1.0 | <10 | <1.0 | <1.0 |
| | 12/16/2015 | <5.0 | <5.0 | <5.0 | <5.0 | <50 | <5.0 | <5.0 |
| | 3/22/2016 | <5.0 | <5.0 | <5.0 | <5.0 | <20 | <5.0 | <5.0 |
| 9/23/2016 | <5.0 | <5.0 | 8.0 | <5.0 | <50 | <5.0 | <5.0 | |
| 3/28/2017 | <5.0 | <5.0 | 12 | <5.0 | <50 | <5.0 | <5.0 | |

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

| Well ID TOC | Date Measured | DIPE (ug/L) | ETBE (ug/L) | MTBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
|-------------|---------------|----------------------------|-------------|-------------|-------------|------------|----------------|------------|
| MW-5 | 6/23/2011 | <120 | <120 | 440 | <120 | <1,200 | <120 | <120 |
| | 9/22/2011 | <50 | <50 | 670 | <50 | 1,500 | <50 | <50 |
| | 12/11/2011 | <120 | <120 | 690 | <120 | 1,600 | <120 | <120 |
| | 3/30/2012 | Sheen - not sampled | | | | | | |
| | 6/1/2012 | Sheen - not sampled | | | | | | |
| | 9/14/2012 | Free product - not sampled | | | | | | |
| | 3/27/2013 | Free product - not sampled | | | | | | |
| | 5/20/2013 | Free product - not sampled | | | | | | |
| | 9/4/2013 | Free product - not sampled | | | | | | |
| | 12/6/2013 | <25 | <25 | 270 | <25 | <250 | <25 | <25 |
| | 6/27/2014 | Free product - not sampled | | | | | | |
| | 9/19/2014 | <25 | <25 | 75 | <25 | <250 | <25 | <25 |
| | 12/15/2014 | <0.5 | <0.5 | 370 | <0.5 | 340 | <0.5 | <0.5 |
| | 3/31/2015 | <5.0 | <5.0 | 71 | <5.0 | 280 | <5.0 | <5.0 |
| | 9/18/2015 | <5.0 | <5.0 | 15 | <5.0 | <50 | <5.0 | <5.0 |
| | 12/16/2015 | <5.0 | <5.0 | 17 | <5.0 | <50 | <5.0 | <5.0 |
| | 3/22/2016 | <5.0 | <5.0 | 26 | <5.0 | 110 | <5.0 | <5.0 |
| | 9/23/2016 | <5.0 | <5.0 | 38 | <5.0 | <50 | <5.0 | <5.0 |
| | 3/28/2017 | <0.5 | <0.5 | 27 | <0.5 | <5.0 | <0.5 | <0.5 |
| | MW-6 | 6/23/2011 | <25 | <25 | 1,100 | <25 | 4,000 | <25 |
| 9/22/2011 | | <12 | <12 | 600 | <12 | 2,800 | <12 | <12 |
| 12/11/2011 | | <10 | <10 | 290 | <10 | 1,300 | <10 | <10 |
| 3/30/2012 | | <10 | <10 | 990 | <10 | 3,500 | <10 | <10 |
| 6/1/2012 | | <10 | <10 | 1,400 | <10 | 2,200 | <10 | <10 |
| 9/14/2012 | | <10 | <10 | 580 | <10 | 2,000 | <10 | <10 |
| 3/27/2013 | | Inaccessible | | | | | | |
| 5/20/2013 | | Inaccessible | | | | | | |
| 9/4/2013 | | <5.0 | <5.0 | 29 | <5.0 | 140 | <5.0 | <5.0 |
| 12/6/2013 | | <2.5 | <2.5 | 12 | <2.5 | <25 | <2.5 | <2.5 |
| 6/27/2014 | | <2.5 | <2.5 | 4.9 | <2.5 | <25 | <2.5 | <2.5 |
| 9/19/2014 | | <2.5 | <2.5 | 7.1 | <2.5 | <25 | <2.5 | <2.5 |
| 12/15/2014 | | <0.5 | <0.5 | 33 | <0.5 | 88 | <0.5 | <0.5 |
| 3/31/2015 | | <5.0 | <5.0 | 12 | <5.0 | <50 | <5.0 | <5.0 |
| 9/18/2015 | | <2.5 | <2.5 | 9.6 | <2.5 | <25 | <2.5 | <2.5 |
| 12/16/2015 | | <5.0 | <5.0 | 10 | <5.0 | <50 | <5.0 | <5.0 |
| 3/22/2016 | <5.0 | <5.0 | 8.7 | <5.0 | 28 | <5.0 | <5.0 | |
| 9/23/2016 | <5.0 | <5.0 | <5.0 | <5.0 | <50 | <5.0 | <5.0 | |
| 3/28/2017 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 | |

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | DIPE (ug/L) | ETBE (ug/L) | MTBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
|------------------|---------------|-------------|-------------|-------------|-------------|------------|----------------|------------|
| DPE Wells | | | | | | | | |
| EW-1 | 6/28/2011 | <25 | <25 | 1,500 | <25 | 5,300 | <25 | <25 |
| | 9/22/2011 | <50 | <50 | 640 | <50 | 1,800 | <50 | <50 |
| | 12/11/2011 | <25 | <25 | 490 | <25 | 1,000 | <25 | <25 |
| | 3/30/2012 | <20 | <20 | 370 | <20 | 1,100 | <20 | <20 |
| | 6/1/2012 | <25 | <25 | 500 | <25 | 1,700 | <25 | <25 |
| | 9/14/2012 | <10 | <10 | 370 | <10 | 1,400 | <10 | <10 |
| | 3/27/2013 | <0.5 | <0.5 | 270 | <0.5 | 560 | <0.5 | <0.5 |
| | 5/20/2013 | <5.0 | <5.0 | 250 | <5.0 | 560 | <5.0 | <5.0 |
| | 9/4/2013 | <2.5 | <2.5 | 220 | <2.5 | 590 | <2.5 | <2.5 |
| | 12/6/2013 | <2.5 | <2.5 | 130 | <2.5 | 270 | <2.5 | <2.5 |
| | 6/27/2014 | <10 | <10 | 40 | <10 | <100 | <10 | <10 |
| | 9/19/2014 | <20 | <20 | 300 | <20 | <200 | <20 | <20 |
| | 12/15/2014 | <0.5 | <0.5 | 170 | <0.5 | 110 | <0.5 | <0.5 |
| | 3/31/2015 | --- | --- | --- | --- | --- | --- | --- |
| | 9/18/2015 | <2.5 | <2.5 | 100 | <2.5 | <25 | <2.5 | <2.5 |
| | 12/16/2015 | <5.0 | <5.0 | 24 | <5.0 | <50 | <5.0 | <5.0 |
| | 3/22/2016 | <5.0 | <5.0 | 40 | <5.0 | 46 | <5.0 | <5.0 |
| | 9/23/2016 | <5.0 | <5.0 | 78 | <5.0 | <50 | <5.0 | <5.0 |
| | 3/28/2017 | <0.5 | <0.5 | 90 | <0.5 | <5.0 | <0.5 | <0.5 |
| | | | | | | | | |
| EW-2 | 6/28/2011 | <25 | <25 | 670 | <25 | 4,100 | <25 | <25 |
| | 9/22/2011 | <50 | <50 | 740 | <50 | 1,600 | <50 | <50 |
| | 12/11/2011 | <50 | <50 | 540 | <50 | 880 | <50 | <50 |
| | 3/30/2012 | <50 | <50 | 1,800 | <50 | 2,800 | <50 | <50 |
| | 6/1/2012 | <50 | <50 | 2,600 | <50 | 3,300 | <50 | <50 |
| | 9/14/2012 | <20 | <20 | 1,100 | <20 | 2,400 | <20 | <20 |
| | 3/27/2013 | <0.5 | <0.5 | 360 | <0.5 | 1,800 | <0.5 | <0.5 |
| | 5/20/2013 | <2.5 | <2.5 | 390 | <2.5 | 2,600 | <2.5 | <2.5 |
| | 9/4/2013 | <5.0 | <5.0 | 460 | <5.0 | 1,400 | <5.0 | <5.0 |
| | 12/6/2013 | <10 | <10 | 210 | <10 | 560 | <10 | <10 |
| | 6/27/2014 | <10 | <10 | 110 | <10 | <100 | <10 | <10 |
| | 9/19/2014 | <25 | <25 | 96 | <25 | <250 | <25 | <25 |
| | 12/15/2014 | <0.5 | <0.5 | 94 | <0.5 | 66 | <0.5 | <0.5 |
| | 3/31/2015 | --- | --- | --- | --- | --- | --- | --- |
| | 9/18/2015 | <10 | <10 | 50 | <10 | <100 | <10 | <10 |
| | 12/16/2015 | <50 | <50 | 58 | <50 | <500 | <50 | <50 |
| | 3/22/2016 | <250 | <250 | <250 | <250 | <1,000 | <250 | <250 |
| | 9/23/2016 | <5.0 | <5.0 | 26 | <5.0 | <50 | <5.0 | <5.0 |
| | 3/28/2017 | <0.5 | <0.5 | 59 | <0.5 | <5.0 | <0.5 | <0.5 |
| | | | | | | | | |

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Well ID TOC | Date Measured | DIPE (ug/L) | ETBE (ug/L) | MTBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
|-------------|---------------|-------------|-------------|-------------|-------------|------------|----------------|------------|
| EW-3 | 5/20/2013 | <2.5 | <2.5 | 140 | <2.5 | 1,100 | <2.5 | <2.5 |
| | 9/4/2013 | <2.5 | <2.5 | 120 | <2.5 | 650 | <2.5 | <2.5 |
| | 12/6/2013 | <2.5 | <2.5 | 96 | <2.5 | 690 | <2.5 | <2.5 |
| | 6/27/2014 | <5.0 | <5.0 | 150 | <5.0 | 360 | <5.0 | <5.0 |
| | 9/19/2014 | <25 | <25 | 75 | <25 | <250 | <25 | <25 |
| | 12/15/2014 | <0.5 | <0.5 | 160 | <0.5 | 700 | <0.5 | <0.5 |
| | 3/31/2015 | <5.0 | <5.0 | 38 | <5.0 | 68 | <5.0 | <5.0 |
| | 9/18/2015 | <5.0 | <5.0 | 120 | <5.0 | <50 | <5.0 | <5.0 |
| | 12/16/2015 | <5.0 | <5.0 | 81 | <5.0 | <50 | <5.0 | <5.0 |
| | 3/22/2016 | <2.5 | <2.5 | 33 | <2.5 | 84 | <2.5 | <2.5 |
| | 9/23/2016 | <0.5 | <0.5 | 32 | <0.5 | 34 | <0.5 | <0.5 |
| | 3/28/2017 | <0.5 | <0.5 | 51 | <0.5 | 130 | <0.5 | <0.5 |
| | | | | | | | | |
| EW-4 | 5/20/2013 | <5.0 | <5.0 | 480 | <5.0 | 1,900 | <5.0 | <5.0 |
| | 9/4/2013 | <5.0 | <5.0 | 220 | <5.0 | 1,300 | <5.0 | <5.0 |
| | 12/6/2013 | <5.0 | <5.0 | 58 | <5.0 | 430 | <5.0 | <5.0 |
| | 6/27/2014 | <2.5 | <2.5 | 82 | <2.5 | 65 | <2.5 | <2.5 |
| | 9/19/2014 | <20 | <20 | 120 | <20 | 520 | <20 | <20 |
| | 12/15/2014 | <0.5 | <0.5 | 100 | <0.5 | 110 | <0.5 | <0.5 |
| | 3/31/2015 | <5.0 | <5.0 | 140 | <5.0 | 310 | <5.0 | <5.0 |
| | 9/18/2015 | <5.0 | <5.0 | 140 | <5.0 | 420 | <5.0 | <5.0 |
| | 12/16/2015 | <5.0 | <5.0 | 87 | <5.0 | 390 | <5.0 | <5.0 |
| | 3/22/2016 | <25 | <25 | 81 | <25 | 250 | <25 | <25 |
| | 9/23/2016 | <5.0 | <5.0 | 150 | <5.0 | 180 | <5.0 | <5.0 |
| | 3/28/2017 | <0.5 | <0.5 | 61 | <0.5 | 270 | <0.5 | <0.5 |
| | | | | | | | | |

Notes:

- | | |
|---|---|
| <ul style="list-style-type: none"> ug/L - denotes micrograms per liter < - denotes less than the detection limit DCA - denotes dichloroethane EDB - denotes ethylene dibromide MTBE - denotes methyl tertiary butyl ether | <ul style="list-style-type: none"> DIPE - denotes di-isopropyl ether ETBE - denotes ethyl tertiary butyl ether TAME - denotes tertiary amyl ether TBA - denotes tertiary butyl alcohol --- - denotes no data available |
|---|---|

Table 5a
Soil Vapor Extraction System Performance Calculations

Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Date | Meter* (hours) | Influent Flow Rate (scfm) | Influent Sample Results | | | Extraction Rates (lb/day) | | | Cumulative Extraction (lb) | | |
|----------|-------------------|--|-------------------------|-------------------|----------------|---------------------------|---------------------|------------------|----------------------------|-----------------|--------------|
| | | | TPHg (ppmv) | Benzene (ppmv) | MTBE (ppmv) | TPHg (lb/day) | Benzene (lb/day) | MTBE (lb/day) | TPHg (lb) | Benzene (lb) | MTBE (lb) |
| 05/27/14 | 590.3 | 106.0 | 2,500 | 14 | 0.73 | 112 | 0.5 | 0.0 | 2,745 | 11.4 | 0.7 |
| 06/17/14 | 961.5 | 125.0 | 40 | 1.4 | 0.18 | 2.1 | 0.05 | 0.0 | 2,778 | 12.3 | 0.8 |
| 06/27/14 | 988.2 | Unit shut down for Carbon Change Out | | | | | | | | | |
| 08/15/14 | 988.2 | Restart Unit | | | | | | | | | |
| 08/19/14 | 992.6 | 125.0 | 33 | 0.79 | 0.13 | 1.7 | 0.03 | 0.0 | 2,780 | 12.3 | 0.8 |
| 09/25/14 | 1,535.7 | 163.0 | 2,100 | 15 | < 0.1 | 144 | 0.77 | 0.0 | 6,042 | 29.7 | 0.9 |
| 10/28/14 | 1,750.4 | 146.0 | 130 | 2.4 | 0.44 | 8.0 | 0.11 | 0.0 | 6,114 | 30.6 | 1.1 |
| 12/09/14 | 2,142.4 | 154.0 | 610 | 2.6 | 0.23 | 40 | 0.13 | 0.0 | 6,760 | 32.7 | 1.3 |
| 02/18/15 | 2,708.3 | System shut down, propane tank removed from site | | | | | | | | | |
| 08/11/15 | 2,708.9 | System restarted | | | | | | | | | |
| 08/25/15 | 2,864.4 | 125.0 | 344 | 2.7 | < 0.1 | 18 | 0.11 | 0.0 | 7,305 | 32.6 | 1.3 |
| 09/29/15 | 3,428.0 | 128.0 | 91 | 1.4 | < 0.1 | 5 | 0.06 | 0.0 | 7,420 | 33.9 | 1.4 |
| 10/26/15 | 3,742.1 | 122.0 | 225 | 0.97 | < 0.1 | 12 | 0.04 | 0.0 | 7,571 | 34.4 | 1.5 |
| 11/23/15 | 4,175.9 | 150.0 | 407 | 1.2 | < 0.1 | 26 | 0.06 | 0.0 | 8,036 | 35.4 | 1.6 |
| 12/16/15 | 4,613.3 | 148.0 | 102 | 0.84 | < 0.1 | 6 | 0.04 | 0.0 | 8,152 | 36.1 | 1.6 |
| 12/16/15 | 4,613.3 | Unit shut down for Carbon Change Out | | | | | | | | | |
| 01/27/16 | 4,761.0 | 146.0 | 23 | 0.73 | < 0.1 | 1.4 | 0.03 | 0.0 | 8,161 | 36.1 | 1.6 |
| 03/21/16 | 5,797.5 | 138.0 | 20 | 0.86 | < 0.1 | 1.2 | 0.04 | 0.0 | 8,211 | 37.7 | 1.8 |
| 04/11/16 | 6,279.7 | 135.0 | 43 | 0.86 | < 0.1 | 2.4 | 0.04 | 0.0 | 8,260 | 38.4 | 1.9 |

MW_{TPHg} = Molecular Weight of TPHg = 105 MW_{MTBE} = Molecular Weight of Methyl tert-butyl ether = 88.15

MW_{Benzene} = Molecular Weight of Benzene = 78.11

days of operation during quarter 69.4

ft³ = cubic feet min = minutes lb/day = pounds per day
 ppmv = parts per million by volume = ft³ / 1x10⁶ ft³ scfm = standard cubic feet per minute

NS = not sampled NA = not analyzed NC = not calculated

Extraction rate = (flow rate(ft³/min) x concentration (ft³ / 1x10⁶ ft³) x MW_{TPHg}(lb/lb-mol) x 1440 min/day)/(359 ft³/lb-mol*)

* - Hour meter readings does not match field data sheets because hour meter was 5472.6 when unit was started.

Table 5b
Soil Vapor Extraction System Destruction Efficiency and Emission Calculations
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| Date | Stack Flow Rate (scfm) | Stack Sample Results (ppmv) | | | Emission Rates (lb/day) | | | Destruction Efficiency (%) | | |
|----------|------------------------|--|---------|--------|-------------------------|---------|---------|----------------------------|---------|-------|
| | | TPHg | Benzene | MTBE | TPHg | Benzene | MTBE | TPHg | Benzene | MTBE |
| 05/27/14 | 106.0 | < 5.0 | < 0.050 | < 0.10 | < 0.2 | < 0.002 | < 0.004 | 100.0 | 100.0 | 100.0 |
| 06/17/14 | 125.0 | < 5.0 | < 0.050 | < 0.10 | < 0.2 | < 0.002 | < 0.004 | 100.0 | 100.0 | 100.0 |
| 08/19/14 | 125.0 | < 5.0 | < 0.050 | < 0.10 | < 0.2 | < 0.002 | < 0.004 | 100.0 | 100.0 | 100.0 |
| 09/25/14 | 163.0 | < 5.0 | < 0.050 | < 0.10 | < 0.3 | < 0.003 | < 0.006 | 100.0 | 100.0 | 100.0 |
| 10/28/14 | 146.0 | < 5.0 | < 0.050 | < 0.10 | < 0.3 | < 0.002 | < 0.005 | 100.0 | 100.0 | 100.0 |
| 12/09/14 | 154.0 | < 5.0 | < 0.050 | < 0.10 | < 0.3 | < 0.002 | < 0.005 | 100.0 | 100.0 | 100.0 |
| 02/18/15 | 154.0 | System shutdown and propane tank removed from site | | | | | | | | |
| 08/11/15 | 121.0 | System restart | | | | | | | | |
| 08/25/15 | 125.0 | < 5.0 | < 0.050 | < 0.10 | < 0.2 | < 0.002 | < 0.004 | 100.0 | 100.0 | 100.0 |
| 10/26/15 | 122.0 | < 5.0 | < 0.050 | < 0.10 | < 0.2 | < 0.002 | < 0.004 | 100.0 | 100.0 | 100.0 |
| 11/23/15 | 150.0 | < 5.0 | < 0.050 | < 0.10 | < 0.3 | < 0.002 | < 0.005 | 100.0 | 100.0 | 100.0 |
| 12/16/15 | 148.0 | < 5.0 | < 0.050 | < 0.10 | < 0.3 | < 0.002 | < 0.005 | 100.0 | 100.0 | 100.0 |
| 12/16/15 | | System shutdown and propane tank removed from site | | | | | | | | |
| 01/27/16 | 146.0 | < 5.0 | < 0.050 | < 0.10 | < 0.3 | < 0.002 | < 0.005 | 100.0 | 100.0 | 100.0 |
| 03/21/16 | 138.0 | < 5.0 | < 0.050 | < 0.10 | < 0.2 | < 0.002 | < 0.005 | 100.0 | 100.0 | 100.0 |
| 04/11/16 | 135.0 | < 5.0 | < 0.050 | < 0.10 | < 0.2 | < 0.002 | < 0.005 | 100.0 | 100.0 | 100.0 |

Note: "<" indicates analytical method detection limit; method detection limits are used as stack concentrations to estimate emission rates. Destruction efficiency is assumed to be 100%.

Sample Calculations

Emission rate = flow rate(ft³/min) x concentration (ft³ / 1x10⁶ ft³) x MW (lb/lb-mole)/359 (ft³/lb-mole*) x 1440 min/day

Destruction Efficiency = [(Extraction rate - Emission rate)/Extraction rate] x 100%

Stack flow = Catox Influent + Natural Gas flow rate

lb/day = pounds per day

ft³ = cubic feet

ppmv = parts per million by volume = ft³ / 1x10⁶ ft³

NS = not sampled

min = minutes

scfm = standard cubic feet per minute

NA = Not applicable

Table 5c
 Groundwater Treatment System Performance Data
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

| DATE | TOTAL FLOW (gallons) | AVG. PERIOD FLOW RATE (gallons/min) | Influent Water Analytical Results | | | Estimated Removal Rates | | | Estimated Removal (Period) | | | Estimated Removal (Cumulative) | | |
|----------|----------------------|-------------------------------------|-----------------------------------|----------------|-------------|---|------------------|---------------|----------------------------|------------------|---------------|--------------------------------|------------------|---------------|
| | | | TPHg (ug/L) | Benzene (ug/L) | MTBE (ug/L) | TPHg (lb/day) | Benzene (lb/day) | MTBE (lb/day) | TPHg (pounds) | Benzene (pounds) | MTBE (pounds) | TPHg (pounds) | Benzene (pounds) | MTBE (pounds) |
| 04/30/14 | 189,810 | | | | | Unit Start Up | | | | | | | | |
| 06/27/14 | 358,850 | 2.02 | 18,600 | 2,600 | 96 | 0.45 | 0.063 | 0.002 | 26.21 | 3.66 | 0.13 | 26.21 | 3.66 | 0.13 |
| 08/19/14 | 360,060 | | | | | Unit Shut Down for Carbon Change Out | | | | | | | | |
| 09/25/14 | 463,050 | 1.93 | 17,500 | 760 | 148 | 0.41 | 0.018 | 0.003 | 15.03 | 0.65 | 0.13 | 41.24 | 4.32 | 0.26 |
| 12/15/14 | 613,230 | 1.29 | 12,175 | 710 | 131 | 0.19 | 0.011 | 0.002 | 15.24 | 0.89 | 0.16 | 56.48 | 5.21 | 0.43 |
| 02/18/15 | 766,392 | 1.64 | 15,500 | 585 | 89 | 0.30 | 0.011 | 0.002 | 19.79 | 0.75 | 0.11 | 76.27 | 5.95 | 0.54 |
| 02/18/15 | 766,392 | | | | | Unit Shut Down for Change from Propane to Natural Gas | | | | | | | | |
| 08/11/15 | 766,392 | | | | | Unit Restarted | | | | | | | | |
| 09/18/15 | 849,579 | 1.52 | 10,525 | 743 | 103 | 0.19 | 0.014 | 0.002 | 40.72 | 2.87 | 0.40 | 117.00 | 8.83 | 0.94 |
| 12/16/15 | 1,082,639 | 1.82 | 12,800 | 803 | 63 | 0.28 | 0.018 | 0.001 | 35.49 | 2.23 | 0.17 | 152.49 | 11.05 | 1.11 |
| 12/16/15 | 1,082,639 | | | | | Unit Shut Down for Carbon Change Out | | | | | | | | |
| 01/21/16 | 1,082,639 | | | | | Unit Restarted | | | | | | | | |
| 03/22/16 | 1,239,526 | 1.79 | 9,750 | 515 | 52 | 0.21 | 0.011 | 0.001 | 20.28 | 1.07 | 0.11 | 172.77 | 12.13 | 1.22 |
| 04/11/16 | 1,340,425 | | | | | Unit Shut Down for Rebound Monitoring | | | | | | | | |

156,887 total gallons pumped during current reporting period
 2615 average gallons per day during current reporting period
 1.8 average gallons per minute during current reporting period

20.28 1.07 0.11

Notes:

Influent concentrations are an average of extraction wells EW-1 through EW-4
 Groundwater flow meter was 189,910 when unit was started up

Sample Calculations:

$$\text{Extraction/disposal rate} = \text{flow rate (gallons/min)} * \text{concentration (ug/L)} * 3.785 \text{ L/gallon} * \text{lb}/454,000,000 \text{ ug} * 1440 \text{ min/day}$$

NC - Not calculated
 NS - Not Sampled
 --- - Not Analyzed

MTBE - Methyl tertiary butyl ether
 TPHg - Total Petroleum Hydrocarbons as gasoline
 TBA - Tertiary butyl ether

lb/day - pounds per day
 ug/L - micrograms per liter

APPENDICES

ENVIRONMENTAL COMPLIANCE GROUP, LLC

STANDARD OPERATING AND SAFETY AND LOSS CONTROL PROCEDURES

1.0 SOIL BORING/DRILLING SAMPLE COLLECTION AND CLASSIFICATION PROCEDURES

ECG will prepare a site-specific Health and Safety Plan as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR.1910.120). The document will be reviewed and signed by all ECG personnel and subcontractors prior to performing work at the site.

Prior to conducting and subsurface work at the site, Underground Services Alert (USA) will be contacted to delineate subsurface utilities near the site with surface markings. In addition, the first five feet of every location will be hand cleared to a diameter larger than the diameter of the auger or probe as a further precaution against damaging underground utilities. Sites that are currently operated as gas stations will be cleared with a private utility locator prior to drilling activities.

Soil samples to be submitted for chemical analyses are collected into brass or stainless steel tubes. The tubes are placed in an 18-inch long split-barrel sampler. The split-barrel sampler is driven its entire length hydraulically or by 140-pound drop hammer. The split-barrel sampler is removed from the borehole and the tubes are removed. When the tubes are removed from the split-barrel sampler, the tubes are trimmed and capped with Teflon sheets and plastic caps or the soil is removed from the tubes and placed in other appropriate sample containers. The samples are sealed, labeled, and placed in ice under chain-of-custody to be delivered to the analytical laboratory. All samples will be kept refrigerated until their delivery to the analytical laboratory.

One soil sample collected from each split-barrel sampler is field screened with a photoionization detector (PID), flame ionization detector (FID), or other equivalent field screening meter. The soil sample is sealed in a plastic bag or other appropriate container to allow volatilization of volatile organic compounds (VOCs). The field meter is used to measure the VOC concentration in the container's headspace and is recorded on the boring logs at the appropriate depth interval.

Other soil samples collected from each split-barrel sampler are inspected and documented to identify the soil stratigraphy beneath the site and classify the soil types according to the United Soil Classification System. The soil types are recorded on boring logs with the appropriate depth interval and any pertinent field observations. Drilling and sampling equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections and boreholes and after use.

2.0 SOIL EXCAVATION SAMPLE COLLECTION AND CLASSIFICATION PROCEDURES

Soil samples to be submitted for chemical analyses are collected into brass or stainless steel tubes or other appropriate containers. The samples are sealed, labeled, and placed in ice under chain-of-custody (COC) to be delivered to the analytical laboratory. All samples will be kept refrigerated until their delivery to the analytical laboratory.

Select soil samples are placed into a sealed plastic bag or other appropriate container and field screened using a PID, FID, or equivalent meter. Other soil samples collected are inspected and documented to identify the soil stratigraphy beneath the site and classify the soil types according to the United Soil Classification System. The soil types are recorded field notes with the appropriate depth interval and any pertinent field observations. Sampling equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections, and after use. Soil cuttings and rinse water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

3.0 SAMPLE IDENTIFICATION AND COC PROCEDURES

Sample containers are labeled with job number, job name, sample collection time and date, sample collection point, and analyses requested. Sampling method, sampler's name, and any pertinent field observations are recorded on boring logs or excavation field notes. COC forms track the possession of the sample from the time of its collection until the time of its delivery to the analytical laboratory. During sample transfers, the person with custody of the samples will relinquish them to the next person by signing the COC and documenting the time and date. The analytical laboratory Quality Control/Quality Assurance (QA/QC) staff will document the receipt of the samples and confirm the analyses requested on the COC matches the sample containers and preservative used, if any. The analytical laboratory will assign unique log numbers for identification during the analyses and reporting. The log numbers will be added to the COC form and maintained in a log book maintained by the analytical laboratory.

4.0 ANALYTICAL LABORATORY QA/QC PROCEDURES

The analytical laboratory analyzes spikes, replicates, blanks, spiked blanks, and certified reference materials to verify analytical methods and results. The analytical laboratory QA/QC also includes:

- Routine instrument calibration,
- Complying with state and federal laboratory accreditation and certification programs,
- Participation in U.S. EPA performance evaluation studies,
- Standard operating procedures, and
- Multiple review of raw data and client reports

5.0 HOLLOW STEM AUGER WELL INSTALLATION

Boreholes for wells are often drilled with a truck-mounted hollow stem auger drill rig. The borehole diameter is at least 4 inches wider than the outside diameter of the well casing. Soil samples are collected and screened as described in **Section 1.0** and decontamination procedures are also the same as described in **Section 1.0**.

Wells are cased with both blank and factory-perforated Schedule 40 PVC. The factory perforations are typically 0.020 inches wide by 1.5 inch long slots, with 42 slots per foot. A PVC cap is typically installed at the bottom of the casing with stainless steel screws. No solvents or cements are used in the construction of the wells. Well stabilizers or centering devices may be installed around the casing to ensure the filter material and grout in the annulus are evenly distributed. The casing is purchased pre-cleaned or steam cleaned and washed prior to installation in the borehole.

The casing is set inside the augers and sand, gravel, or other filter material is poured into the annulus to fill the borehole from the bottom to approximately 1-2 feet above the perforations. A two foot thick bentonite plug is placed above the filter material to prevent the grout from filling the filter pack. Neat cement or sand-cement grout is poured into the annulus from the top of the bentonite plug to the surface. For wells located in parking lots or driveways, or roads, a traffic rated well box is installed around the well. For wells located in landscaped areas or fields, a stovepipe well protection device is installed around the well. Soil cuttings and rinse water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

6.0 MUD AND AIR ROTARY WELL INSTALLATION

Boreholes for wells can also be drilled with a truck-mounted air rotary or mud rotary drill rig. Air or mud can be used as a drill fluid to fill the borehole and prevent the borehole from caving in and remove drill cuttings. Mud or air can be chosen depending on the subsurface conditions. Soil samples are collected and screened as described in **Section 1.0** and decontamination procedures are also the same as described in **Section 1.0**.

Wells are cased with both blank and factory-perforated Schedule 40 PVC. The factory perforations are typically 0.020 inches wide by 1.5 inch long slots, with 42 slots per foot. A PVC cap is typically installed at the bottom of the casing with stainless steel screws. No solvents or cements are used in the construction of the wells. Well stabilizers or centering devices may be installed around the casing to ensure the filter material and grout in the annulus are evenly distributed. The casing is purchased pre-cleaned or steam cleaned and washed prior to installation in the borehole. Soil cuttings and drilling fluids are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

The casing is set inside the augers and sand, gravel, or other filter material is poured into the annulus to fill the borehole from the bottom to approximately 1-2 feet above the perforations. A two foot thick bentonite plug is placed above the filter material to prevent the grout from filling the filter pack. Neat cement or sand-cement grout is poured into the annulus from the top of the bentonite plug to the surface. For wells located in parking lots or driveways, or roads, a traffic rated well box is installed around the well. For wells located in landscaped areas or fields, a stovepipe well protection device is installed around the well. Soil cuttings and rinse water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

7.0 WELL DEVELOPMENT

After well installation, the wells are developed to remove residual drilling materials from the annulus and to improve well production by fine materials from the filter pack. Possible well development methods include pumping, surging, bailing, jetting, flushing, and air lifting. Development water is temporarily stored onsite pending laboratory analytical results and proper transport and disposal. Development equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections and after use. After well development the wells are typically allowed to stabilize for at least 24 hours prior to purging and sampling.

8.0 LIQUID LEVEL MEASUREMENTS

Liquid level measurements are made with a water level meter and/or interface probe and disposable bailers. The probe tip attached to a measuring tape is lowered into the well and into the groundwater when a beeping tone indicates the probe is in the groundwater. The probe and measuring tape (graduated to hundredths of a foot) are slowly raised until the beeping stops and the depth to water measurement is recorded. If the meter makes a steady tone, this indicates the presence of floating liquid hydrocarbons (FLH) and the probe and measuring tape are raised until the steady tone stops and the depth to the FLH is measured. Once depth to water and depth to FLH (if present) has been recorded, the probe and measuring tape are lowered to the bottom of the well where the total depth of the well is measured. The depth to water, depth to FLH, and depth to bottom are measured again to confirm the results.

If FLH is encountered in the well, a disposable bailer is lowered into the well and brought back to the surface to confirm the thickness/presence of FLH. To minimize potential for cross contamination between wells, all measurements are done from cleanest to dirtiest well. Prior to beginning liquid level measurements, in between measurements in all wells, and at the completion of liquid level measurements, the water level probe and measuring tape is cleaned with solution (Alconox, Simple Green, or equivalent) and rinsed with deionized water.

9.0 WELL PURGING AND SAMPLING

Each well is typically purged of at least three well casing volumes of groundwater prior to collecting a groundwater sample. Purging can continue beyond three well casing volumes if field parameters including pH, temperature, electrical conductivity are not stabilizing during the purging process. If the well is purged dry before the three well casing volumes has been purged, the well is typically allowed to recharge to 80 percent of its initial water level before a groundwater sample is collected.

Purging equipment can include submersible pumps, PVC purging bailers, disposable bailers, air lift pumps, or pneumatic pumps. Prior to beginning well purging, in between each well purging, and at the completion of purging activities, all non-dedicated purging equipment is cleaned with solution (Alconox, Simple Green, or equivalent) and rinsed with deionized water.

Once the well has been purged, it will be sampled with a disposable bailer, PVC bailer, stainless steel bailer, or through a low flow groundwater pump. The groundwater sample is transferred from the bottom of the bailer to reduce volatilization to the appropriate sample container. The sample containers are specified by the analytical laboratory depending on the analyses requested. Sample containers typically include volatile organic compound (VOA) vials with septa of Teflon like materials. The groundwater sample is collected into the VOAs to minimize air bubbles and once the cap has been placed on the VOA, the VOA is tipped upside down to see if air bubbles are present in the VOA. Typically a duplicate VOA is collected from each well to be analyzed by the analytical laboratory, if warranted, to verify results.

Sample containers are labeled as described in Section 3.0 and placed immediately in an ice chest and kept refrigerated until its delivery to the analytical laboratory. A trip blank may also be prepared by the analytical laboratory to travel with the ice chest during transport to the laboratory. Field blanks from equipment that has been decontaminated may be collected in between use in different wells to verify the decontamination procedure is effective. To minimize potential for cross contamination between wells, all wells are purged and sampled from cleanest to dirtiest well.

10.0 TEDLAR BAG SOIL VAPOR SAMPLING

Sampling equipment to collect Tedlar bag soil vapor samples includes an air pump, a Tedlar bag which can range in size from 1 to 10 liters, and 3/16-inch diameter polyethylene tubing. The air pump should be equipped with 3/16-inch hose barbs for the polyethylene tubing to attach to. The Tedlar bag must be equipped with a valve for filling and sealing the bag.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with a 3/16-inch hose barb. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. One end of the polyethylene tubing is connected to the sample collection port and one end is connected to the influent of the air pump, creating an air tight seal. The air pump is turned on and soil vapor from the sample collection port is pumped through the air pump for at least one minute. The air pump is turned off and one end of another piece of polyethylene tubing is connected to the effluent of the air pump and one end is connected to the valve on the Tedlar bag. The valve is opened and the air pump is turned on filling the Tedlar bag with the soil vapor sample until the bag has reached 75% capacity, when the valve on the Tedlar bag is closed and the air pump is turned off.

Tedlar bags are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

11.0 SUMMA CANISTER SOIL VAPOR SAMPLING

Sampling equipment to collect Summa canister soil vapor samples includes a sterilized Summa stainless steel canister under vacuum, ¼-inch diameter polyethylene tubing, and a laboratory calibrated flow meter, if required.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with brass connection with silicone septa that has been threaded into a tapped hole on the piping network. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. One end of the polyethylene tubing is connected to the brass sample collection port and one end is connected to the canister valve or flow meter, creating an air tight seal. Prior to collecting the soil vapor sample, the valve on the Summa canister is opened to verify the Summa canister has the required vacuum which is recorded. Three well volumes of vapor will be purged at a rate less than 200 milliliters per minute (ml/min.), including sand pack pore volume from each soil vapor probe prior to sample collection. The sample valve or flow meter is opened and the soil vapor sample is collected into the Summa canister and the sample valve is closed and the final vacuum reading (typically greater than 5 inches per square inch) on the Summa canister is recorded.

Per the DTSC *Advisory Active Soil Gas Investigations*, April 2012, high quality soil gas data collection is driven by project-specific data quality objectives (DQOs) and can be enhanced by using a shroud and a gaseous tracer compound. This method of leak detection ensures that soil gas wells are properly constructed and the sample train components do not leak. Most gaseous tracer compounds do not affect target analyte measurements nor does their detection require sample dilution. Also, gaseous leak tracer compounds allow a quantitative determination of a leak either in the sampling train or from ambient air intrusion down the borehole.

The shroud will be designed to contain the entire sampling train and the soil gas well annulus. The sampling train will be constructed of material that does not react with the sample analytes and will not off gas or adsorb volatile compounds. The sampling equipment will be clean and shut-in tested prior to use. The gaseous leak tracer compound (isobutylene 100 ppm) concentration inside the shroud will be monitored frequently to verify initial concentrations. A photoionization detector will be used to monitor tracer gas concentrations.

Summa canisters are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory.

12.0 SYRINGE SOIL VAPOR SAMPLING

Sampling equipment to collect syringe soil vapor samples includes a sterilized, 100 cubic centimeter, gas tight syringe and silicone septa.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with brass connection with silicone septa that has been threaded into a tapped hole on the piping network. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. The syringe is inserted into the silicone septa and the plunger is purged or pumped at least three times. The sample is collected the fourth time the syringe plunger is extracted and the syringe is removed from the sample collection port and the needle on the syringe is capped with a rubber stopper.

Syringes are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory.

13.0 TEMPORARY SAMPLING POINTS

A temporary borehole is advanced using either a slam bar or a direct push drill rig. In the case of the slam bar, once the borehole has been created, a temporary soil vapor probe is inserted into the borehole and advanced with a slide hammer or other physical force two additional feet. A bentonite seal is then placed in the borehole above the soil vapor probe to create an air tight seal and prevent ambient air from entering the sample collection space. In the case of the direct push drill rig, the sampling rod is advanced to the desired depth with a 6-inch retractable vapor screen at the tip. The sample screen on the 6-inch vapor screen is removed and a bentonite seal is then placed in the borehole above the soil vapor probe to create an air tight seal and prevent ambient air from entering the sample collection space.

Once the bentonite seal has set, at least one hour, the soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0** or Summa canisters as described in **Section 11.0**. Samples are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

14.0 REPEATABLE SAMPLING POINTS

A borehole is advanced using either a hand auger or a drill rig. A 6-inch slotted probe with caps on both ends is placed in the borehole. A Swagelok fitting is attached to one end cap and 3/16-inch diameter Nylon tubing is attached to the Swagelok fitting. A one foot sand pack is placed around the probe and the remainder of the borehole is sealed with a layer of dry bentonite powder, followed by a layer of bentonite chips, and an additional layer of dry bentonite powder. A well box is placed on the surface of the repeatable sampling point and the excess Nylon tubing is placed inside the well box.

Soil vapor survey samples will be collected at least one week after probe installation. In addition, soil vapor survey samples will only be collected after five consecutive precipitation free days and after any onsite irrigation has been suspended.

The soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0** or Summa canisters as described in **Section 11.0**. Tedlar bags or Summa canisters are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.



California Ag & Environmental Labs

11 April 2017

Mike Sgourakis
Environmental Compliance Group, LLC
270 Vintage Drive
Turlock, CA 95382

RE: Shore Acres Gas

Enclosed are the results for sample(s) received on 03/31/17 10:45 by California Ag & Environmental Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Hiram Cueto".

Hiram Cueto
Lab Manager



California Ag & Env Laboratory Sample Receipt Checklist

Client Name: Environmental Compliance Group Date & Time Received: 03/31/17 10:45

Project Name: Shore Acres Gas Client Project Number: GHA.19009

Received By: HC Matrix: Water Soil Sludge

Sample Carrier: Client Laboratory Fed Ex UPS Other

CAL Labs Project Number: T703024

Shipper Container in good condition? N/A Yes No Samples received in proper containers? Yes No

Samples received intact? Yes No

Samples received under refrigeration? Yes No Sufficient sample volume for requested tests? Yes No

Chain of custody present? Yes No Samples received within holding time? Yes No

Chain of Custody signed by all parties? Yes No Do samples contain proper preservative?
N/A Yes No

Chain of Custody matches all sample labels? Yes No Do VOA vials contain zero headspace?
(None submitted) Yes No

ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW

Date Client Contacted: _____ Person Contacted: _____

Contacted By: _____ Subject: _____

Comments:

Action Taken:

ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments:



California Ag & Env Labs Inc.

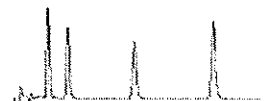
2905 Railroad Ave. Ceres, CA 95307 (209) 581-9280 Fax (209) 581-9282

Environmental Compliance Group, LLC
270 Vintage Drive
Turlock, CA 95382Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike SgourakisWork Order No.:
T703024**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| MW-1 | T703024-01 | Water | 03/28/17 12:51 | 03/31/17 10:45 |
| MW-2 | T703024-02 | Water | 03/28/17 10:22 | 03/31/17 10:45 |
| MW-3 | T703024-03 | Water | 03/28/17 13:58 | 03/31/17 10:45 |
| MW-4 | T703024-04 | Water | 03/28/17 10:37 | 03/31/17 10:45 |
| MW-5 | T703024-05 | Water | 03/28/17 11:21 | 03/31/17 10:45 |
| MW-6 | T703024-06 | Water | 03/28/17 12:38 | 03/31/17 10:45 |
| EW-1 | T703024-07 | Water | 03/28/17 11:15 | 03/31/17 10:45 |
| EW-2 | T703024-08 | Water | 03/28/17 11:03 | 03/31/17 10:45 |
| EW-3 | T703024-09 | Water | 03/28/17 11:57 | 03/31/17 10:45 |
| EW-4 | T703024-10 | Water | 03/28/17 13:41 | 03/31/17 10:45 |

Approved By

California Ag & Environmental Laboratories, Inc., California D.O.H.S. Cert. #2359



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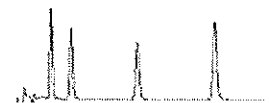
| | | |
|---|---|----------------------------|
| Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382 | Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis | Work Order No.: T703024 |
|---|---|----------------------------|

Total Petroleum Hydrocarbons @ Gasoline

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|-----------|--------|-------|
| MW-1 (T703024-01) Water Sampled: 28-Mar-17 12:51 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 47000 | 2000 | ug/L | 40 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 91 % | | | " | " | |
| MW-2 (T703024-02) Water Sampled: 28-Mar-17 10:22 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 3000 | 100 | ug/L | 2 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 96 % | | | " | " | |
| MW-3 (T703024-03) Water Sampled: 28-Mar-17 13:58 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 1200 | 50 | ug/L | 1 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 93 % | | | " | " | |
| MW-4 (T703024-04) Water Sampled: 28-Mar-17 10:37 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 4500 | 250 | ug/L | 5 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 103 % | | | " | " | |
| MW-5 (T703024-05) Water Sampled: 28-Mar-17 11:21 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 9700 | 500 | ug/L | 10 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 91 % | | | " | " | |
| MW-6 (T703024-06) Water Sampled: 28-Mar-17 12:38 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 8100 | 500 | ug/L | 10 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 87 % | | | " | " | |
| EW-1 (T703024-07) Water Sampled: 28-Mar-17 11:15 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 9000 | 500 | ug/L | 10 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 107 % | | | " | " | |

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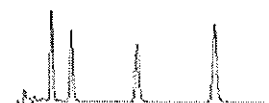
| | | |
|---|---|----------------------------|
| Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382 | Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis | Work Order No.: T703024 |
|---|---|----------------------------|

Total Petroleum Hydrocarbons @ Gasoline

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|-----------|--------|-------|
| EW-2 (T703024-08) Water Sampled: 28-Mar-17 11:03 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 7100 | 250 | ug/L | 5 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 92 % | | | " | " | |
| EW-3 (T703024-09) Water Sampled: 28-Mar-17 11:57 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 4100 | 100 | ug/L | 2 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 106 % | | | " | " | |
| EW-4 (T703024-10) Water Sampled: 28-Mar-17 13:41 Received: 31-Mar-17 10:45 | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 10000 | 500 | ug/L | 10 | 06-Apr-17 | 8015M | |
| Surr. Rec.: | | 95 % | | | " | " | |

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| | | |
|---|---|----------------------------|
| Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382 | Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis | Work Order No.: T703024 |
|---|---|----------------------------|

Volatile Organic Compounds by EPA Method 8260B

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|----------|--------|-------|

MW-1 (T703024-01) Water Sampled: 28-Mar-17 12:51 Received: 31-Mar-17 10:45

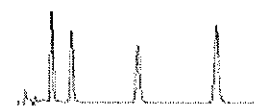
| | | | | | | | |
|-------------------------|------|------|------|----|-----------|-------|--|
| Benzene | 1600 | 20 | ug/L | 40 | 06-Apr-17 | 8260B | |
| Toluene | 270 | 20 | " | " | " | " | |
| Xylenes, total | 9000 | 40 | " | " | " | " | |
| Ethylbenzene | 3600 | 20 | " | " | " | " | |
| t-Butanol | 470 | 200 | " | " | " | " | |
| Methyl tert-Butyl Ether | 340 | 20 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 20 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 20 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 20 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 20 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 20 | " | " | " | " | |
| Surr. Rec.: | | 86 % | | | " | " | |

MW-2 (T703024-02) Water Sampled: 28-Mar-17 10:22 Received: 31-Mar-17 10:45

| | | | | | | | |
|-------------------------|-----|------|------|---|-----------|-------|--|
| Benzene | 120 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 6.2 | 0.5 | " | " | " | " | |
| Xylenes, total | 64 | 1.0 | " | " | " | " | |
| Ethylbenzene | 39 | 0.5 | " | " | " | " | |
| t-Butanol | ND | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 10 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 94 % | | | " | " | |

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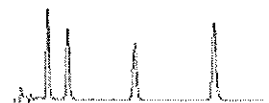
| | | |
|-------------------------------------|---------------------------------|-----------------|
| Environmental Compliance Group, LLC | Project Number: GHA.19009 | Work Order No.: |
| 270 Vintage Drive | Project Name: Shore Acres Gas | T703024 |
| Turlock, CA 95382 | Project Manager: Mike Sgourakis | |

Volatile Organic Compounds by EPA Method 8260B

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|-----------|--------|-------|
| MW-3 (T703024-03) Water Sampled: 28-Mar-17 13:58 Received: 31-Mar-17 10:45 | | | | | | | |
| Benzene | 47 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 20 | 0.5 | " | " | " | " | |
| Xylenes, total | 67 | 1.0 | " | " | " | " | |
| Ethylbenzene | 11 | 0.5 | " | " | " | " | |
| t-Butanol | 95 | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 19 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 100 % | | | " | " | |
| MW-4 (T703024-04) Water Sampled: 28-Mar-17 10:37 Received: 31-Mar-17 10:45 | | | | | | | |
| Benzene | 700 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 56 | 0.5 | " | " | " | " | |
| Xylenes, total | 300 | 1.0 | " | " | " | " | |
| Ethylbenzene | 140 | 0.5 | " | " | " | " | |
| t-Butanol | ND | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 12 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 94 % | | | " | " | |

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| | | |
|-------------------------------------|---------------------------------|-----------------|
| Environmental Compliance Group, LLC | Project Number: GHA.19009 | Work Order No.: |
| 270 Vintage Drive | Project Name: Shore Acres Gas | T703024 |
| Turlock, CA 95382 | Project Manager: Mike Sgourakis | |

Volatife Organic Compounds by EPA Method 8260B

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|-----------|--------|-------|
| MW-5 (T703024-05) Water Sampled: 28-Mar-17 11:21 Received: 31-Mar-17 10:45 | | | | | | | |
| Benzene | 310 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 68 | 0.5 | " | " | " | " | |
| Xylenes, total | 1200 | 1.0 | " | " | " | " | |
| Ethylbenzene | 580 | 0.5 | " | " | " | " | |
| t-Butanol | ND | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 27 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |

Surr. Rec.: 89 % " "

MW-6 (T703024-06) Water

Sampled: 28-Mar-17 12:38 Received: 31-Mar-17 10:45

| | | | | | | | |
|-------------------------|-----|-----|------|---|-----------|-------|--|
| Benzene | 190 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 11 | 0.5 | " | " | " | " | |
| Xylenes, total | 130 | 1.0 | " | " | " | " | |
| Ethylbenzene | 100 | 0.5 | " | " | " | " | |
| t-Butanol | ND | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |

Surr. Rec.: 88 % " "

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| | | |
|---|---|----------------------------|
| Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382 | Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis | Work Order No.: T703024 |
|---|---|----------------------------|

Volatile Organic Compounds by EPA Method 8260B

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|-----------|--------|-------|
| EW-1 (T703024-07) Water Sampled: 28-Mar-17 11:15 Received: 31-Mar-17 10:45 | | | | | | | |
| Benzene | 210 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 3.2 | 0.5 | " | " | " | " | |
| Xylenes, total | 55 | 1.0 | " | " | " | " | |
| Ethylbenzene | 95 | 0.5 | " | " | " | " | |
| t-Butanol | ND | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 90 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 93 % | | | " | " | |

| | | | | | | | |
|---|-----|------|------|---|-----------|-------|--|
| EW-2 (T703024-08) Water Sampled: 28-Mar-17 11:03 Received: 31-Mar-17 10:45 | | | | | | | |
| Benzene | 64 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 33 | 0.5 | " | " | " | " | |
| Xylenes, total | 260 | 1.0 | " | " | " | " | |
| Ethylbenzene | 51 | 0.5 | " | " | " | " | |
| t-Butanol | 110 | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 59 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 97 % | | | " | " | |

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| | | |
|-------------------------------------|--------------------------------|-----------------|
| Environmental Compliance Group, LLC | Project Number: GHA.19009 | Work Order No.: |
| 270 Vintage Drive | Project Name: Shore Acres Gas | T703024 |
| Turlock, CA 95382 | Project Manager: Mike Sgurakis | |

Volatile Organic Compounds by EPA Method 8260B

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|-----------|--------|-------|
| EW-3 (T703024-09) Water Sampled: 28-Mar-17 11:57 Received: 31-Mar-17 10:45 | | | | | | | |
| Benzene | 150 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 3.9 | 0.5 | " | " | " | " | |
| Xylenes, total | 32 | 1.0 | " | " | " | " | |
| Ethylbenzene | 41 | 0.5 | " | " | " | " | |
| t-Butanol | 130 | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 51 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 98 % | | | " | " | |
| EW-4 (T703024-10) Water Sampled: 28-Mar-17 13:41 Received: 31-Mar-17 10:45 | | | | | | | |
| Benzene | 460 | 0.5 | ug/L | 1 | 06-Apr-17 | 8260B | |
| Toluene | 12 | 0.5 | " | " | " | " | |
| Xylenes, total | 690 | 1.0 | " | " | " | " | |
| Ethylbenzene | 190 | 0.5 | " | " | " | " | |
| t-Butanol | 270 | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 61 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 90 % | | | " | " | |

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| | | |
|-------------------------------------|---------------------------------|-----------------|
| Environmental Compliance Group, LLC | Project Number: GHA.19009 | |
| 270 Vintage Drive | Project Name: Shore Acres Gas | Work Order No.: |
| Turlock, CA 95382 | Project Manager: Mike Sgourakis | T703024 |

Total Petroleum Hydrocarbons @ Gasoline - Quality Control

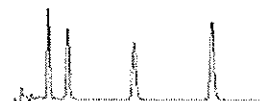
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|-----------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|-----------|-------------|-----|-----------|-------|

Batch T700115 - EPA 5030B

| Blank (T700115-BLK1) | | Prepared & Analyzed: 04/06/17 | | | | | | | | |
|---|------|-------------------------------|------|-------------------------------|------|-----|--------|---|----|--|
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 50.5 | | ug/L | 50 | | 101 | 70-130 | | | |
| Total Petroleum Hydrocarbons @ Gasoline | ND | 50 | " | | | | | | | |
| LCS (T700115-BS1) | | Prepared & Analyzed: 04/06/17 | | | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 1170 | | ug/L | 1000 | | 117 | 80-120 | | | |
| Matrix Spike (T700115-MS1) | | Source: T703024-03 | | Prepared & Analyzed: 04/06/17 | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 2250 | | ug/L | 1000 | 1200 | 105 | 70-130 | | | |
| Matrix Spike Dup (T700115-MSD1) | | Source: T703024-03 | | Prepared & Analyzed: 04/06/17 | | | | | | |
| Total Petroleum Hydrocarbons @ Gasoline | 2150 | | ug/L | 1000 | 1200 | 95 | 70-130 | 5 | 20 | |

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| | | |
|---|---|----------------------------|
| Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382 | Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis | Work Order No.: T703024 |
|---|---|----------------------------|

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch T700114 - EPA 5030B

Blank (T700114-BLK1)

Prepared & Analyzed: 04/06/17

| | | | | | | | | | | |
|---------------------------------|------|-----|------|----|--|----|--------|--|--|--|
| <i>Surrogate: Fluorobenzene</i> | 46.5 | | ug/L | 50 | | 93 | 70-130 | | | |
| Benzene | ND | 0.5 | " | | | | | | | |
| Toluene | ND | 0.5 | " | | | | | | | |
| Xylenes, total | ND | 1.0 | " | | | | | | | |
| Ethylbenzene | ND | 0.5 | " | | | | | | | |
| t-Butanol | ND | 5.0 | " | | | | | | | |
| Methyl tert-Butyl Ether | ND | 0.5 | " | | | | | | | |
| Di-Isopropyl Ether | ND | 0.5 | " | | | | | | | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | | | | | | | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 0.5 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | | | | | | | |

LCS (T700114-BS1)

Prepared & Analyzed: 04/06/17

| | | | | | | | | | | |
|------------------------|------|-----|------|----|--|----|--------|--|--|--|
| Xylenes, total | ND | 1.0 | ug/L | | | | 80-120 | | | |
| Ethyl tert-Butyl Ether | 23.5 | | " | 25 | | 94 | 80-120 | | | |

Matrix Spike (T700114-MS1)

Source: T704001-02

Prepared & Analyzed: 04/06/17

| | | | | | | | | | | |
|---------|------|--|------|----|----|-----|--------|--|--|--|
| Benzene | 26.8 | | ug/L | 25 | ND | 107 | 70-130 | | | |
|---------|------|--|------|----|----|-----|--------|--|--|--|

Matrix Spike Dup (T700114-MSD1)

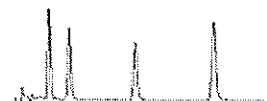
Source: T704001-02

Prepared & Analyzed: 04/06/17

| | | | | | | | | | | |
|---------|------|--|------|----|----|-----|--------|---|----|--|
| Benzene | 28.1 | | ug/L | 25 | ND | 112 | 70-130 | 5 | 20 | |
|---------|------|--|------|----|----|-----|--------|---|----|--|

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California Ag & Env Labs Inc.

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Environmental Compliance Group, LLC
270 Vintage Drive
Turlock, CA 95382

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.:
T703024

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas PROJECT NUMBER: GHA.19009
PROJECT MANAGER: MSS TASK NUMBER: _____
SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: MW-1 TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
Well Total Depth: 19.92
Depth to Water: 0.73
Water Column Length: 11.19

WELL DIAMETER: 2-inch: _____
4-inch: _____
6-inch: _____

PURGE VOLUME CALCULATION:
Water Column Length x Multiplier x No. Volumes = Purge Volume
 $\frac{11.19}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{5.75}{\text{Purge Volume}}$

MULTIPLIER DATA:
Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:
2-inch: 0.17
4-inch: 0.65
6-inch: 1.5

PURGE METHOD: Disposable Bailer
PVC Bailer _____
Submersible Pump _____
Other _____

SAMPLE METHOD: Disposable Bailer
Pump: _____
Other: _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1243 | 2 | 7.31 | 10.1 | 097 | | | |
| 1246 | 4 | 7.37 | 10.5 | 901 | | | |
| 1249 | 5.75 | 7.41 | 10.1 | 898 | | | |
| 1251 | | | | | | | Stop |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

FIELD TECHNICIAN: MVA
DATE: 3/20/07

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas **PROJECT NUMBER:** GHA.19009
PROJECT MANAGER: MSS **TASK NUMBER:** _____
SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: MW-2 **TYPE OF WELL:** Monitoring

WATER COLUMN DATA: **WELL DIAMETER:**
 Well Total Depth: 19.96 (feet) 2-inch:
 Depth to Water: 9.42 4-inch: _____
 Water Column Length: 10.54 6-inch: _____

PURGE VOLUME CALCULATION:
 Water Column Length x Multiplier x No. Volumes = Purge Volume

$$\frac{10.54}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{5.70}{\text{Purge Volume}}$$

MULTIPLIER DATA:
 Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:
 2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD: **SAMPLE METHOD:**
 Disposable Bailer Disposable Bailer
 PVC Bailer _____ Pump: _____
 Submersible Pump _____ Other: _____
 Other _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1014 | 1.75 | 7.09 | 18.3 | 857 | | | |
| 1017 | 3.5 | 7.18 | 18.1 | 862 | | | |
| 1020 | 5.25 | 7.14 | 17.9 | 853 | | | |
| 1022 | | | | | | | sample |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

FIELD TECHNICIAN: DVA
DATE: 3/28/17

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas **PROJECT NUMBER:** GHA.19009
PROJECT MANAGER: MSS **TASK NUMBER:** _____
SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: MW-3

TYPE OF WELL: Monitoring

WATER COLUMN DATA:
 Well Total Depth: 17.04 (feet)
 Depth to Water: 9.20
 Water Column Length: 7.64

WELL DIAMETER:
 2-inch:
 4-inch: _____
 6-inch: _____

PURGE VOLUME CALCULATION:

Water Column Length x Multiplier x No. Volumes = Purge Volume

$$\frac{7.64}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{4}{\text{Purge Volume}}$$

MULTIPLIER DATA:

Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD:

Disposable Bailer
 PVC Bailer _____
 Submersible Pump _____
 Other _____

SAMPLE METHOD:

Disposable Bailer
 Pump: _____
 Other: _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1351 | 1.5 | 7.20 | 10.0 | 607 | | | |
| 1354 | 3.0 | 7.27 | 10.9 | 609 | | | |
| 1356 | 4 | 7.55 | 10.0 | 611 | | | |
| 1358 | | | | | | | sample |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

FIELD TECHNICIAN: AM
DATE: 3/20/17

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas PROJECT NUMBER: GHA.19009
 PROJECT MANAGER: MSS TASK NUMBER: _____
 SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: MW-4 TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 18.70
 Depth to Water: 9.22
 Water Column Length: 9.48

WELL DIAMETER:
 2-inch:
 4-inch: _____
 6-inch: _____

PURGE VOLUME CALCULATION:
 Water Column Length x Multiplier x No. Volumes = Purge Volume

9.48 x 0.17 x 3 = 5

Water Column Length Multiplier No. Volumes Purge Volume

MULTIPLIER DATA:
 Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD: Disposable Bailer
 _____ PVC Bailer
 _____ Submersible Pump
 _____ Other

SAMPLE METHOD: Disposable Bailer
 _____ Pump:
 _____ Other:

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1029 | 1.75 | 7.12 | 18.6 | 717 | | | |
| 1032 | 3.5 | 7.04 | 18.7 | 708 | | | |
| 1035 | 5 | 7.18 | 18.5 | 714 | | | |
| 1037 | | | | | | | sample |
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FIELD TECHNICIAN: DUSA
 DATE: 3/28/17

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas **PROJECT NUMBER:** GHA.19009
PROJECT MANAGER: MSS **TASK NUMBER:** _____
SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: MW-5 **TYPE OF WELL:** Monitoring

WATER COLUMN DATA: (feet) **WELL DIAMETER:**
 Well Total Depth: NM 2-inch:
 Depth to Water: NM 4-inch: _____
 Water Column Length: _____ 6-inch: _____

PURGE VOLUME CALCULATION:
 Water Column Length x Multiplier x No. Volumes = Purge Volume
 _____ x _____ x _____ = 5.0
 Water Column Length Multiplier No. Volumes Purge Volume

MULTIPLIER DATA:
 Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:
 2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD: Disposable Bailer
 PVC Bailer _____
 Submersible Pump _____
 Other _____

SAMPLE METHOD: Disposable Bailer
 Pump: _____
 Other: _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1113 | 1.75 | 7.04 | 18.1 | 1049 | | | |
| 1116 | 3.5 | 7.01 | 18.6 | 1051 | | | |
| 1119 | 5 | 7.07 | 18.4 | 1021 | | | |
| 1121 | | | | | | | sample |
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FIELD TECHNICIAN: DWA
DATE: 3/20/12

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas PROJECT NUMBER: GHA.19009
 PROJECT MANAGER: MSS TASK NUMBER: _____
 SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: MW-6 TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 19.90
 Depth to Water: 8.75
 Water Column Length: 11.20

WELL DIAMETER:
 2-inch:
 4-inch: _____
 6-inch: _____

PURGE VOLUME CALCULATION:
 Water Column Length x Multiplier x No. Volumes = Purge Volume

11.20 x 0.17 x 3 = 5.75
 Water Column Length Multiplier No. Volumes Purge Volume

MULTIPLIER DATA:
 Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD: Disposable Bailer
 PVC Bailer _____
 Submersible Pump _____
 Other _____

SAMPLE METHOD: Disposable Bailer
 Pump: _____
 Other: _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|-------------|---------------------|-------------|-------------|---------------|-----------|----------|---------------|
| <u>1235</u> | <u>2</u> | <u>7.10</u> | <u>18.2</u> | <u>675</u> | | | |
| <u>1237</u> | <u>4</u> | <u>7.11</u> | <u>17.9</u> | <u>695</u> | | | |
| <u>1238</u> | <u>5.75</u> | <u>7.04</u> | <u>17.7</u> | <u>688</u> | | | |
| <u>1238</u> | | | | | | | <u>Sample</u> |
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FIELD TECHNICIAN: NWA
 DATE: 3/28/17

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas
 PROJECT MANAGER: MSS
 SITE ADDRESS: 403 East 12th Street, Oakland, CA

PROJECT NUMBER: GHA.19009
 TASK NUMBER: _____

WELL ID: EW-1

TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 19.62
 Depth to Water: 9.29
 Water Column Length: 10.33

WELL DIAMETER:
 2-inch: _____
 4-inch: _____
 6-inch: _____

PURGE VOLUME CALCULATION:

Water Column Length x Multiplier x No. Volumes = Purge Volume

$$\frac{10.33}{\text{Water Column Length}} \times \frac{0.65}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{21}{\text{Purge Volume}}$$

MULTIPLIER DATA:

Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD:

Disposable Bailer _____
 PVC Bailer _____
 Submersible Pump _____
 Other _____

SAMPLE METHOD:

Disposable Bailer _____
 Pump: _____
 Other: _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1105 | 7 | 7.37 | 18.6 | 888 | | | |
| 1109 | 14 | 7.34 | 18.9 | 890 | | | |
| 1113 | 21 | 7.31 | 19.1 | 894 | | | |
| 1115 | | | | | | | sample |
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FIELD TECHNICIAN: MVA
 DATE: 3/28/17

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas **PROJECT NUMBER:** GHA.19009
PROJECT MANAGER: MSS **TASK NUMBER:** _____
SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: Eul-2 **TYPE OF WELL:** Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 19.97
 Depth to Water: 9.54
 Water Column Length: 10.43

WELL DIAMETER:
 2-inch: _____
 4-inch: _____
 6-inch: _____

PURGE VOLUME CALCULATION:
 Water Column Length x Multiplier x No. Volumes = Purge Volume
10.43 x 0.65 x 3 = 21
 Water Column Length Multiplier No. Volumes Purge Volume

MULTIPLIER DATA:
 Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:
 2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD: Disposable Bailer _____
 PVC Bailer _____
 Submersible Pump _____
 Other _____

SAMPLE METHOD: Disposable Bailer _____
 Pump _____
 Other _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1053 | 7 | 7.17 | 10.9 | 961 | | | |
| 1057 | 14 | 7.09 | 12.1 | 990 | | | |
| 1101 | 21 | 7.15 | 10.5 | 949 | | | |
| 1105 | | | | | | | sample |
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FIELD TECHNICIAN: DGA
DATE: 3/20/17

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas **PROJECT NUMBER:** GHA.19009
PROJECT MANAGER: MSS **TASK NUMBER:** _____
SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: EW-3 **TYPE OF WELL:** Monitoring

WATER COLUMN DATA: **WELL DIAMETER:**
 Well Total Depth: 19.07 ^(feet) 2-inch: _____
 Depth to Water: 9.21 4-inch: _____
 Water Column Length: 10.67 6-inch:

PURGE VOLUME CALCULATION:
 Water Column Length x Multiplier x No. Volumes = Purge Volume

$$\frac{10.67}{\text{Water Column Length}} \times \frac{1.5}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{48}{\text{Purge Volume}}$$

MULTIPLIER DATA:
 Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:
 2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD: **SAMPLE METHOD:**
 Disposable Bailer _____ Disposable Bailer
 PVC Bailer Pump: _____
 Submersible Pump _____ Other: _____
 Other _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1147 | | 7.3 | 18.6 | 987 | | | |
| 1151 | | 7.16 | 18.9 | 983 | | | |
| 1155 | | 7.07 | 18.3 | 991 | | | |
| 1157 | | | | | | | Scum |
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FIELD TECHNICIAN: DWA
DATE: 3/28/17

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres Gas **PROJECT NUMBER:** GHA.19009
PROJECT MANAGER: MSS **TASK NUMBER:** _____
SITE ADDRESS: 403 East 12th Street, Oakland, CA

WELL ID: EW-4 **TYPE OF WELL:** Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 19.90
 Depth to Water: 9.50
 Water Column Length: 10.40

WELL DIAMETER:
 2-inch: _____
 4-inch: _____
 6-inch:

PURGE VOLUME CALCULATION:
 Water Column Length x Multiplier x No. Volumes = Purge Volume

10.40 x 1.5 x 3 = 47
 Water Column Length Multiplier No. Volumes Purge Volume

MULTIPLIER DATA:
 Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD: **SAMPLE METHOD:**

Disposable Bailer _____ Disposable Bailer
 PVC Bailer Pump: _____
 Submersible Pump _____ Other: _____
 Other _____

| TIME | VOLUME PURGED (gal) | pH | TEMP. (°C) | COND. (uS/cm) | DO (mg/l) | ORP (mV) | COMMENTS |
|------|---------------------|------|------------|---------------|-----------|----------|----------|
| 1329 | 17 | 7.06 | 18.9 | 891 | | | |
| 1334 | 32 | 7.06 | 19.1 | 888 | | | |
| 1339 | 47 | 7.29 | 19.2 | 920 | | | |
| 1341 | | | | | | | sample |
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FIELD TECHNICIAN: JWA
DATE: 3/28/17